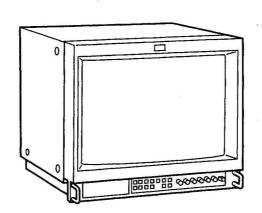
SERVICE MANUAL

		and controlled the second second			C 05404 654 2447-000
MODEL	DEST.	CHASSIS NO.	MODEL	DEST.	CHASSIS NO.
PVM-14M2MDU	US Canadian	SCC-N59B-A	PVM-20M2MDU	US Canadian	SCC-N59A-A
PVM-14M2MDE	AEP	SCC-N33F-A	PVM-20M2MDE	AEP	SCC-N33E-A
PVM-14M2MDA	Australian	SCC-N17E-A	PVM-20M2MDA	Australian	SCC-N17D-A
		i			



TRINITRON® COLOR VIDEO MONITOR SONY.

SPECIFICATIONS

Video signal

For PVM-14M2MDU/14M2MDE/14M2MDA/ 20M2MDU/20M2MDE/20M2MDA:

Color system

NTSC, PAL

Resolution

600 TV lines

Aperture correction 0 dB to +6 dB

Frequency response LINE

10 MHz ± 3 dB (Y signal)

RGB

 $10 \text{ MHz} \pm 3 \text{ dB}$

Synchronization

AFC time constant 1.0 msec.

Picture performance

For PVM-14M2MDU/14M2MDE/14M2MDA:

Normal scan

7 % over scan of CRT effective

screen area

Under scan

5 % underscan of CRT effective

screen area

Over scan

20 % over scan of CRT effective

screen area

H. linearity

Less than 4.0 % (typical)

V. linearity

Less than 4.0 % (typical)

Convergence

Central area:

Less than 0.4 mm (typical)

Peripheral area: Less than 0.5 mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

3.5 %

Color temperature

D65/D56/D93, selectable

USER (3,200K-10,000K, factory

setting is D65)

For PVM-20M2MDU/20M2MDE/20M2MDA

Normal scan

7 % over scan of CRT effective

screen area

Under scan

5 % underscan of CRT effective

screen area

Over scan

20 % over scan of CRT effective

screen area

H. linearity

Less than 5.0 % (typical)

V. linearity

Convergence

Less than 5.0 % (typical)

Central area:

Less than 0.6 mm (typical)

Peripheral area: Less than 1.0 mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation 4.0 %

Color temperature

D65/D56/D93, selectable

USER (3,200K-10,000K, factory

setting is D65)

Inputs (common to all models)

LINE A

VIDEO IN

BNC connector, 1Vp-p ±6 dB, sync

AUDIO IN

Phono jack ($\times 1$), -5 dBu^{a)}, more than

47 kilo-ohms

LINE B

Y/C IN

4-pin mini-DIN (×1)

See the pin assignment on page 37.

AUDIO IN

Phono jack ($\times 1$), -5 dBu^a), more than

47 kilo-ohms

RGB/COMPONENT A/B

R/R-Y,G/Y,B/B-Y IN: BNC connector (×3)

R, G, B channels: 0.7 Vp-p, ±6 dB

Sync on green: 0.3 Vp-p, negative

R-Y, B-Y channels: 0.7 Vp-p, ±6 dB

Y channel: 0.7 Vp-p, ±6 dB

(Standard color bar signal of 75%

chrominance)

AUDIO IN

Phono jack (×1), -5 dBu^{a)}, more than

47 kilo-ohms

EXT SYNC IN

BNC connector (×1)

4 Vp-p, ±6 dB, sync negative

REMOTE

D SUB 9 PIN (×1), 8 PIN MIN DIN

See the pin assignment on page 37.

a) 0 dBu = 0.775 Vr.m.s.

Outputs (common to all models)

LINE A

VIDEO OUT

BNC connector (×1) loop-through,

Automatic 75 ohms termination Phono jack loop-through

AUDIO OUT

LINE B

Y/C OUT

4-pin mini-DIN (×1) loop-through,

Automatic 75 ohms termination Phono jack (×1) loop-through

AUDIO OUT

RGB/COMPONENT A

R/R-Y,G/Y,B/B-Y OUT: BNC connector (×3)

loop-through Automatic 75 ohms termination

AUDIO OUT

Phono jack (×1) loop-through

EXT SYNC OUT

BNC connector (×1) Automatic 75 ohms termination

DC OUT

8 V/0.8A

Speaker output

Output level: 0.8 W

General (common to all models)

Classification of equipment

- Evaluated to EN60601-1, EN60601-1-2, UL2601-1, CSA601.1
- Type of protection against electric shock

Class I equipment

- Degree of protection against harmful ingress of water Ordinary equipment
- Degree of safety of application in the presence of a flammable anaesthetic mixture

Not protected equipment

- Mode of operation

Continuous operation

- Information concerning type and frequency of technical maintenance
 Not need maintenance equipment
- Main power switch Functional switch

CRT

P-22 phosphor

Operating conditions

0 to +40°C (32 to 104°F) Temperature

700 to 1,060 hPa Pressure

30 to 85% (no condensation) Humidity

Transport and Storage conditions

-10 to +40°C (14 to 104°F) Temperature

700 to 1,060 hPa Pressure

0 to 90% Humidity

Accessories supplied

AC power cord (1)

AC plug holder (1)

Side Cover (2)

Control panel cover (1)

Panel hinge (2)

Remote control connector 8-pin mini

DIN (1)

Interface Manual for Programmers

(1)

Instructions for Use (1)

For PVM-14M2MDU:

Power requirements $1.2 \sim 0.5A$

100 to 240 V AC, 50/60Hz 1)

Dimensions (w/h/d) Approx. $346 \times 340 \times 431$ mm

 $(13\frac{5}{8} \times 13\frac{1}{2} \times 17 \text{ inches})$

not incl. projecting parts and controls

Mass

Approx. 16.7kg (36 lb 13 oz)

For PVM-14M2MDE/14M2MDA:

Power requirements $1.2 \sim 0.5A$

100 to 240 V AC, 50/60Hz¹⁾

Dimensions (w/h/d) Approx. $346 \times 340 \times 431$ mm

 $(13\frac{5}{8} \times 13\frac{1}{2} \times 17 \text{ inches})$

not incl. projecting parts and controls

Mass

Approx. 16.7kg (36 lb 13 oz)

For PVM-20M2MDU:

Power requirements 1.5 ~ 0.6A

100 to 240 V AC, 50/60Hz 1)

Dimensions (w/h/d) Approx. $450 \times 458 \times 503$ mm

 $(17^{3}/4 \times 18^{1}/8 \times 19^{7}/8 \text{ inches})$

not incl. projecting parts and controls

Mass Approx. 30.0 kg (66 lb 2 oz)

For PVM-20M2MDE/20M2MDA:

Power requirements 1.5 ~ 0.6A

Mass

100 to 240 V AC, 50/60Hz 1)

Dimensions (w/h/d) Approx. $450 \times 458 \times 503$ mm

 $(17^{3}/4 \times 18^{1}/8 \times 19^{7}/8 \text{ inches})$

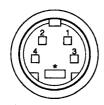
not incl. projecting parts and controls

Approx. 30.0 kg (66 lb 2 oz)

Design and specifications are subject to change without notice.

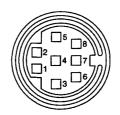
¹⁾ Use a proper power cord for your local power supply. (See page 22.)

Pin assignment
Y/C IN connector (4-pin mini-DIN)



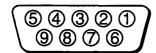
Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA subcarrier-input	300m Vp-p (PAL)/286m Vp-p (NTSC), burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND

REMOTE 1 (8-pin mini DIN)



Pin No.	Signal -
1	REMOTE ON/OFF
2	LINE A
3	GND
4	LINE B
5	TALLY
6	OVER SCAN
7	RGB A
8	RGB B

RS-232C (D-sub 9-pin)



Pin No.	Signal
1	
2	RX
3	TX
4	
5	GND
6	_
7	RTS
8	CTS
9	_

SAFETY CHECK-OUT (US Model only)

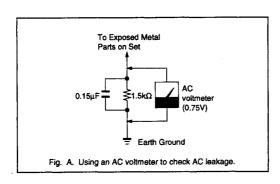
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA. Leakage current can be measured by any one of three methods.

- A commercial leakage tester; such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this iob.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate lowvoltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PRINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DE TUBE CATHODIQUI ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQVE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÀLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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			=	-

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual

WARNING

Owner's Record

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No.	
Serial No	

To prevent fire or shock hazard, do not expose the unit to

Dangerously high voltages are present inside the unit. Do not open the cabinet. Refer servicing to qualified personnel only.

In the event of a malfunction or when maintenance is necessary, consult an authorized Sony dealer.

This unit contains substances which can pollute the environment if disposed carelessly. Please contact our nearest representative office or your local environmental office in case of disposal of this unit.

Power Switch

The power switch is a functional switch only. To isolate the set from the mains supply remove the mains plug from the wall socket.

FOR CUSTOMERS IN THE UNITED KINGDOM

WARNING

THIS APPARATUS MUST BE EARTHED

IMPORTANT

FOLLOWS:

The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW— EARTH BLUE — NEUTRAL

BROWN — LIVE

As the colours of the wires in the mains lead of this
apparatus may not correspond with the coloured markings
identifying the terminals in your plug PROCEED AS

The wire coloured GREEN AND YELLOW must be connected to the terminal on the plug marked with the letter E or by the safety earth symbol * or coloured GREEN or GREEN-AND-YELLOW.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured RED. The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLACK.

Ensure that your equipment is connected correctly — If you are in any doubt consult a qualified electrician.

FOR THE CUSTOMERS IN THE USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiale radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

ATTENTION - When the product is installed in a

a) Elevated operating ambient temperature

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient.

Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature of 0 to +40° (Timra).

b) Reduced air flow

Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

c) Mechanical loading

Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

d) Circuit overloading

Condideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring.

Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

e) Reliable earthing

Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

Be sure to connect the AC power cord to a grounded outlet.

Warning

Important safeguards/notices for use in the medical environments

- All the equipments connected to this unit shall be certified according to Standard IEC601-1, IEC950, IEC65 or other IEC/ISO Standards applicable to the equipments
- When this unit is used together with other equipment in the patient area*, the equipment shall be either powered by an isolation transformer or connected via an additional protective earth terminal to system ground unless it is certified according to Standard IEC601-1 and IEC601-1-1
 - * Patient Area



- 3. The leakage current could increase when connected to other equipment
- The operator should take precautions to avoid touching the rear panel input and output circuitry and the patient at the same time.
- Model PVM-14M2MDU/14M2MDE/14M2MDA/ 20M2MDU/20M2MDE/20M2MDA is a video monitor intended for use in a medical environment to display video pictures from cameras or other video system.

Symbols on the unit

Symbol	Location Front panel	This symbol indicates Main power switch. Press to turn the monitor on or off.
	Rear panel	The equipotential terminal which brings the various
A	Rear panel	parts of a system to the same potential.
ᆂ	rieai parier	T GIOLOGIA CARTICONIA
\sim	Rear panel	Alternating current
A	Rear panel	Attention, consult ACCOMPANYING DOCUMENTS

Warning on power connection

Use a proper power cord for your local power supply.

	United State	Canada	Continental Europa	depart
Plug type	HOSPITAL GRADE	HOSPITAL GRADE	LP-34A	VM1050
Female end	E41395	LL33182	LS-60	VM1010
Cord type	E41395-A	LL76662	H05VV-F	PVCTF
Minimum cord set rating	10A/125V	10A/125V	10A/250V	12A/125V
Safety approval	UL	CSA	VDE	DENTORI

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Precautions

On easiety

- Operate the unit on 100 240 V AC only.
- The nameplate indicating operating voltage, power consumption, etc. is located on the rear.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for several days or more.
- To disconnect the AC power cord, pull it out by grasping the plug. Never pull the cord itself.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.

On installation

- Allow adequate air circulation to prevent internal heat build-up.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

On cleaning

To keep the unit looking brand-new, periodically clean it with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since they will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.

On repacking

Do not throw away the carton and packing materials. They make an ideal container which to transport the unit.

If you have any questions about this unit, contact your authorized Sony dealer.

Features

Picture

Trinitron¹) picture tube

Trinitron tube provides a high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture.

Comb filter

When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Inputs

Two color systems available

The monitor can display PAL, and NTSC signals. The appropriate color system is selected automatically.

Analog RGB/component input connectors

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors. Press the RGB/COMPONENT A/B select button on the front panel and select RGB or component signals from the on-screen menu.

Y/C input connector (S input connector)

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

External sync input connectors

When the external RGB or component signal is input and sync signal is set to external in the on-screen menu, the monitor can be operated on the sync signal supplied from an external sync generator.

Automatic termination (only terminals with the -\frac{1}{2}\rightarrow mark)

The BNC input connectors on the rear panel are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

Punctions

On-screen menus
You can set color temperature, CHROMA SET UP, and other settings by using the on-screen menus.

Overscan mode

The display size is enlarged by approximately 20% and the center part of the screen is easier to watch.

Underscen mode

The signal normally scanned outside of the screen can be monitored in the underscan mode.

Note

When the monitor is in the underscan mode, the dark RGB scanning lines may appear on the top edge of the screen. These are caused by an internal test signal, rather than the input signal.

Split function

The display splits into two parts (upper and lower). The upper part of the screen monitors the signal fed through the RGB/COMPONENT A input connectors and lower part of the screen monitors the signal fed through the RGB/COMPONENT B input connectors. You can compare the two screens.

Auto/manual degaussing

Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.

Five menu languages

You can select the language used for on-screen menus from the five languages.

Side cover(s) and control panel cover

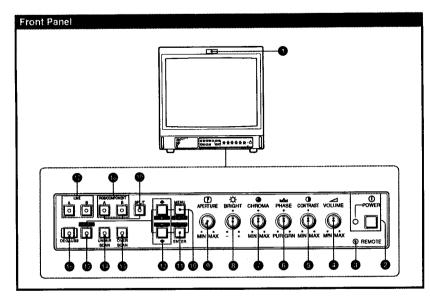
The side covers that protect the ventilation holes from splashes (of medicines, etc.) as much as possible and a control panel cover that protects the control buttons on the front panel from undesired touching are supplied.

EIA standard 19-inch rack mounting

By using an MB-502B (for PVM-14M2MDU/14M2MDE/14M2MDA) or SLR-103A (for PVM-20M2MDU/20M2MDD/30M2MDA) Mounting Bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the mounting bracket kit.

¹⁾ Trinitron is a registered trademark of Sony Corporation.

Location and Function of Parts and Controls



Tally indicator

This indicator lights up. The tally control connection is For the pin assignment, see "Specifications" on page 37.

2 (1) POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green. To turn the power off, press this again.

@ REMOTE indicator

This indicator lights up in the conditions below:

- When PRESET is set to ON in the menu.
- When REMOTE (RS-232C) is set to REMOTE ONLY or REMOTE & LOCAL in the menu, or
- When REMOTE ON is set via the REMOTE 1 terminal

■ VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume

⑤ ○ CONTRAST control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

6 → PHASE control

This control is effective only for the NTSC color system. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

CHROMA (chrominance) control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

③ ∴ BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

APERTURE control

Turn clockwise for more sharpness and counterclockwise for less.

When the control is set to MIN, the picture becomes flat without need for corrections.

Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of RGB signals. The PHASE control setting has no effect on the pictures of component signals.

MENU (EXIT) button

Press to make the menu appear. Press to return to the previous screen in the menu.

ENTER (SELECT) button

Press to decide a selected item in the menu.

Location and Function of Parts and Controls

1 (+)/ ↓ (-) buttons

Press to move the cursor (>) or adjust selected value in

OVERSCAN button

Press (light on) for overscanning. The display size is extended by approximately 20% so that the center of screen is easier to watch. By pressing the button again, the display returns to the normal size (light off).

UNDERSCAN button

Press (light on) for underscanning. The display size is reduced by approximately 5% so that four corners of the raster are visible. By pressing the button again, the display returns to the normal size (light off).

RESET button

During menu adjustments, press to reset the setting in the menu.

DEGAUSS button

Press this button momentarily. The screen will be demagnetized Wait for 10 minutes or more before activating this

button again.

The picture rolls vertically while the screen is being demagnetized.

LINE A/B select buttons

Press to select a signal (light on).

- A: Press to monitor the signal fed through the LINE A input connectors.
- B: Press to monitor the signal fed through the LINE B input connectors.

RGB/COMPONENT A/B select buttons

Press to select a signal (light on).

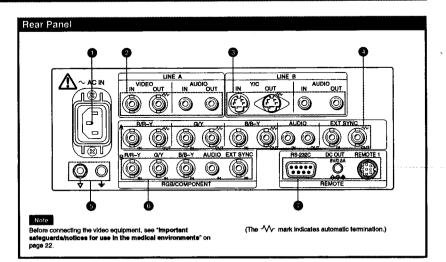
- A: Press to monitor the signal fed through the RGB/ COMPONENT A input connectors.
- B: Press to monitor the signal fed through the RGB/ COMPONENT B input connectors.

SPLIT button

When you select RGB signals fed through the RGB/ COMPONENT A and RGB/COMPONENT B input connectors, press this button (light on) to split the display into two parts (upper and lower), and monitor the both RGB signals simultaneously.

Note

Make sure the signals fed through the RGB/COMPONENT A and RGB/COMPONENT B input connectors are synchronized.



O AC IN socket

Connect the supplied AC power cord to this socket. "~" means Alternating Current.

2 LINE A connectors

Line input connectors for the composite video and audio signals and their loop-through output connectors. To monitor the input signal fed through these connectors, press LINE A select button (light on) on the front panel.

VIDEO IN (BNC)

Connect to the video output connector of a video equipment, such as a VTR or a color video camera. For a loop-through connection, connect to the video output connector of another monitor.

VIDEO OUT (BNC)

Loop-through output of the VIDEO IN connector. Connect to the video input connector for a VTR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

AUDIO IN (phono jack)

Connect to the audio output connector of a VTR or to a microphone through a suitable microphone amplifier. For a loop-through connection, connect to the audio output connector of another monitor.

AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VTR or another monitor.

LINE B connectors

Separated Y/C input connectors, audio input connectors, and corresponding loop-through output connectors.

To monitor the input signal fed through these connectors, press LINE B select button (light on) on the front panel.

Y/C IN (4-pin mini DIN)

Connect to the Y/C separate output connector of a VTR, video camera or other video equipment.

Y/C OUT (4-pin mini DIN)

Loop-through output of the Y/C IN connector. Connect to the Y/C separate input connector of a VTR or another monitor.

When the cable is connected to this connector, the 75-ohms termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

AUDIO IN (phono iack)

Connect to the audio output connector of a VTR or to a microphone through a suitable microphone amplifier. For a loop-through connection, connect to the audio output connector of another monitor.

AUDIO OUT (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VTR or another monitor.

Location and Function of Parts and Controls

RCR/COMPONENT A connectors

RGB signal or component signal input connectors and their loop-through output connectors.

To monitor the input signal fed through these connectors, press the RGB/COMPONENT A select button (light on) on the front panel.

Then select one out of four items in the RGB A SYSTEM menu to set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal.

For the operation through the menus, see pages 29 to

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When "RGB-INT SYNC" or "COMP-INT SYNC" is selected in the RGB A SYSTEM menu, the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal

Connect to the analog RGB signal output connectors of a video camera.

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal output connectors of a Sony Betacam equipment.

R/R-Y OUT, G/Y OUT, B/B-Y OUT (BNC)

Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.

When the cables are connected to these connectors, the 75-ohms termination of the inputs is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors. To output the analog RGB signal

Connect to the analog RGB signal input connectors of a video printer or another monitor.

To output the component signal
Connect to the R-Y/Y/B-Y component signal input

connectors of a Sony Betacam equipment.

AUDIO IN (phono jack)

Connect to the audio output connector of video equipment when the analog RGB or component signal is input

AUDIO OUT (phono jack)

Loop-through outputs of the AUDIO IN connector.

EXT SYNC (external sync) IN (BNC)

When this monitor operates on an external sync signal, connect the signal from a sync generator to this connector.

To use the sync signal fed through this connector, select "RGB-EXT SYNC" or "COMP-EXT SYNC" in the RGB A SYSTEM menu.

EXT SYNC (external sync) OUT (BNC)

Loop-through output of the EXT SYNC IN connector. Connect to the external sync input connector of video equipment to be synchronized with this monitor. When the cable is connected to this connector, the 75-ohms termination of the input is released, and the signal input to the EXT SYNC IN connector is output from this connector.

Ground ([†]/[‡]) terminal Connect a GND cable.

6 RGB/COMPONENT B connectors

RGB signal or component signal input connectors.
To monitor the input signal fed through these connectors, press the RGB/COMPONENT B select button (light on) on the front panel.
Then select one out of four items in the RGB B SYSTEM menu to set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal.

For the operation through the menus, see pages 29 to

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)

When "RGB-INT SYNC" or "COMP-INT SYNC" is selected in the RGB B SYSTEM menu, the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal

Connect to the analog RGB signal output connectors of a video camera.

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal output connectors of a Sony Betacam equipment.

AUDIO IN (phono jack)

Connect to the audio output connector of video equipment when the analog RGB or component signal is input

EXT SYNC (external sync) IN (BNC)

When this monitor operates on an external sync signal, connect the signal from a sync generator to this connector.

To use the sync signal fed through this connector, select "RGB -EXT SYNC" or "COMP-EXT SYNC" in the RGB B SYSTEM menu.

REMOTE connectors

RS-232C (D-sub 9-pin)

Connect to the RS-232C control connector of other equipment. You can operate the monitor with the control command from the equipment. For the details, see the supplied Interface Manual for Programmers.

REMOTE 1 (8-pin mini DIN)

Connect to the tally output connector of a control console, effects, etc. The tally indicator on the front panel will be turned on and off by the connected equipment.

You can also connect a remote controller using this connector.

For the pin assignments of these connectors, see "Specifications" on page 37.

DC OUT 8V/0.8A connector

You can use this connector as a power source for the other equipment.

DC 8V/0.8A is output.

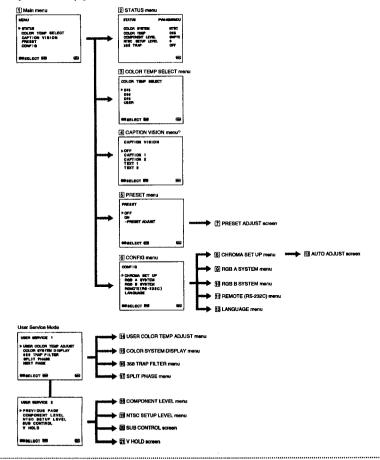
27

Using On-Screen Menus

Menu Configuration

The flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings

For details of each menu, see pages 30 to 32.



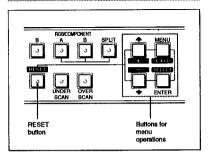
CAPTION VISION in the Main menu is designed for an exclusive use with the PVM-20M2MDU and 14M2MDU models.

Usina On-Screen Menus

Operating through Menus

There are five buttons for menu operations on the front panel of the monitor. To display the main menu, first press MENU (EXIT). The buttons you can use appear at the buttom of the menu screen.

Functions of the buttons



Button		To adjust selected menu hom
MENU	return to the previous menu.	return to the previous menu.
ENTER	decide a selected item.	select an item.
	move the cursor (►) upwards.	increase selected value.
—	move the cursor (►) downwards.	decrease selected value.
		reset current adjustment value to the factory setting.

(The above items in white type correspond to the marks in the menu.)

For PVM-14M2MDE/14M2MDA/20M2MDE/20M2MDA:

For the first time when the monitor is turned on, the LANGUAGE menu (12) will appear on the screen. So, select the language you want to use.



- Move the cursor (▶) to the desired language by pressing the ♣/- or ♠/+ button.
- 2 Press the MENU(EXIT) button.

Note

Unless you press the MENU(EXIT) button in the procedure above, the LANGUAGE menu will always appear whenever you turn on the monitor.

The Contents of Menu Items

The following sentences show the details of each menu items.

[] indicates the factory setting position.

1 Main menu

Select an item and press the ENTER (SELECT) button to go to the following menu.

2 STATUS menu

Shows the current settings.

3 COLOR TEMP SELECT menu

Select the color temperature from among D65, D56, D93 and USER. USER is set to D65 in the factory setting. You can adjust or change the color temperature in USER mode (a measuring instrument is needed).

Note

The color temperature of the USER mode can be adjusted in the range from 3200K to 10000K. You can adjust the color temperature of the USER mode in the USER COLOR TEMP ADJUST menu (14) of the user service mode. For the details, see USER COLOR TEMP ADJUST

For the details, see USER COLOR TEMP ADJUST menu (14) on page 31.

4 CAPTION VISION menu

This menu is provided only for PVM-20M2MDU/14M2MDU.

The monitor can display the signal with Caption Vision. To display it, select the caption type in this menu.

)FF1

5 PRESET menu

You can preset each control to a desired level and set it. If you set PRESET to ON, the REMOTE indicator lights up and the controls on the front panel do not work. The monitor operates with the internal memory settings. For adjustment, select the PRESET ADJUST

IOFFI

6 CONFIG menu

Select an item for adjustment of the monitor.

7 PRESET ADJUST screen

Adjust CONTRAST, BRIGHT, CHROMA, PHASE. VOLUME, APERTURE in the PRESET menu.

8 CHROMA SET UP menu

Set to ON to adjust the internal decoder for CHROMA and PHASE (NTSC signal only) after AUTO ADJUST screen (13)

(OFF)

9 RGB A SYSTEM menu

To monitor the signal fed through the RGB/ COMPONENT A connectors, set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal in this menu. IRGB-EXT SYNCE

10 RGB B SYSTEM menu

To monitor the signal fed through the RGB/ COMPONENT B connectors, set the RGB or COMP (component) signal and the INT SYNC (internal sync) or EXT SYNC (external sync) signal in this menu. [RGB-EXT SYNC]

III REMOTE (RS-232C) menu

Select one out of following three modes. REMOTE OFF.

You can adjust settings and controls by the buttons and controls on the front panel.

The RS-232C connector does not function.

REMOTE ONLY:

You can adjust settings and controls through the RS-232C connector.

Buttons and controls on the front panel, except the menu operation ones, do not function.

REMOTE & LOCAL:

You can adjust settings and controls both through the RS-232C connector and the front panel buttons. Controls on the front panel do not function.

IREMOTE OFFI

12 LANGUAGE menu

You can select the language used for on-screen menus from the following five languages (English, German, French, Italian, Spanish). **IENGLISH**

13 AUTO ADJUST screen

Select the color bar signal (full, SMPTE, EIA) and press the ENTER (SELECT) button to start automatic adjustment for CHROMA and PHASE. For these adjustments to be valid, you must select ON in CHROMA SET UP menu (8)

User Service Mode

The user service mode is useful when adjusting the settings and controls except for the above.

To enter the user service mode, press and hold the MENU (EXIT) button until the following USER SERVICE 1

To move to the second page of the mode, select "NEXT PAGE" and to return to the first page, select "PREVIOUS PAGE".



USER REDUCE A PREVIOUS PAGE COMPOHENT LEVEL NTSC SETUP LEVEL SUB CONTROL V HOLD SERBELECT ER

14 USER COLOR TEMP ADJUST menu

The value of adjustment in this menu works only when "USER" is selected in the COLOR TEMP SELECT menu (3)

ADJUST GAIN-

Adjusts the color balance (gain) of the USER mode. ADJUST BIAS:

Adjusts the color balance (bias) of the USER mode. COLOR TEMP RANGE:

When you adjust the color temperature in the USER mode, select a color temperature range before adjusting ADJUST GAIN and ADJUST BIAS. If the adjusted color temperature is between 3200K and 5000K, select "3200K-5000K." If the adjusted color temperature is between 5000K and 10000K, select "5000K-10000K."

[5000K-10000K1

USER COPY

Selects the color temperature of the USER mode from among D65, D56 and D93.

15 COLOR SYSTEM DISPLAY menu

Select the color system display mode. In AUTO, the kind of color system being used appears on the screen each time you change the signal input,

16 358 TRAP FILTER menu

Color spill or color noise may be eliminated if you select ON (NTSC signal only). Normally set it to OFF.

Using On-Screen Menus

17 SPLIT PHASE menu

When the SPLIT function is activated, if the lower side picture (the signal fed through the RGB/COMPONENT B input connectors) has some discrepancy of location with the upper side picture, adjust the SPLIT PHASE

Each time you press the \(\frac{1}{2}(+) \) button, the lower side picture moves left

Note

When the adjustment is made in the menu, the skew error will occur on the top of the lower side picture.

18 COMPONENT LEVEL menu

Select the component level from among three modes. N10/SMPTE: for 100/0/100/0 signal BETA 7.5: for 100/7.5/75/7.5 signal BETA 0: for 100/0/75/0 signal For PVM-20M2MDE/20M2MDA/14M2MDE/ 14M2MDA IN10/SMPTEI For PVM-20M2MDU/14M2MDI IBETA 01

19 NTSC SETUP LEVEL menu

Select the NTSC setup level from two modes. The 7.5 setup level is mainly used in north America. The 0 setup level is mainly used in Japan. For PVM-20M2MDE/20M2MDA/14M2MDE/ 14M2MDA For PVM-20M2MDU/14M2MDU 17.51

20 SUB CONTROL screen

You can finely adjust the controls on the front panel. CONTRAST, PHASE, CHROMA and BRIGHT controls have clicks at the center of their adjustment range. You can adjust the setting of the click position with this feature

21 V HOLD screen

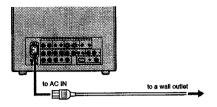
Adjust the vertical hold if the picture rolls vertically,

If the rolling of the picture prevents you from watching the screen, select an input that has nothing connected.

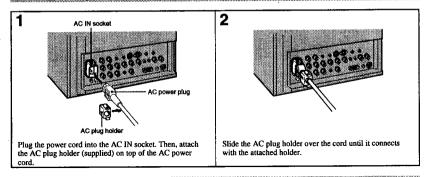
Power Sources

House Current

Connect the supplied AC power cord to the AC IN socket on the rear panel and to a wall outlet.



To connect an AC power cord securely with the AC plug holder

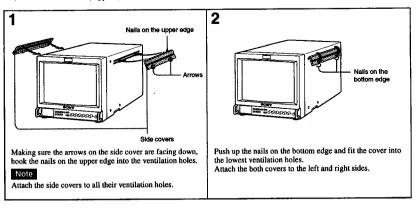


To remove the AC power cord

Pull out AC plug holder by squeezing the up and down sides.

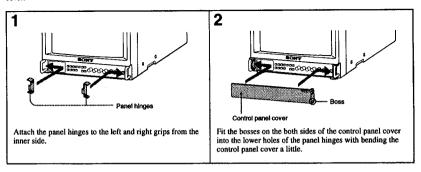
Attaching the Side Covers

In order to protect the ventilation holes from medicines, etc., attach the side covers (supplied) as shown below.



Attaching the Control Panel Cover

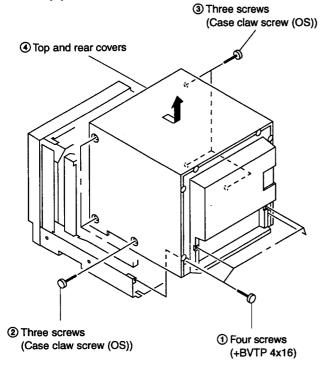
In order to protect the control buttons on the front panel from undesired touching, attach the supplied control panel cover.



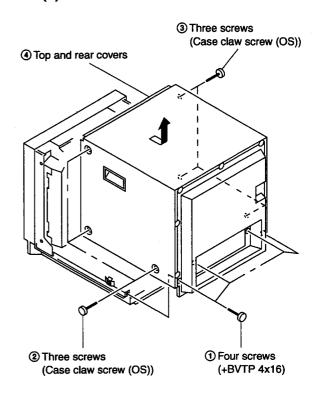
SECTION 2 DISASSEMBLY

2-1. TOP AND REAR COVERS REMOVAL

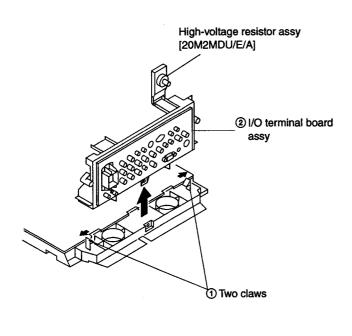
(1) 14M2MDU/E/A



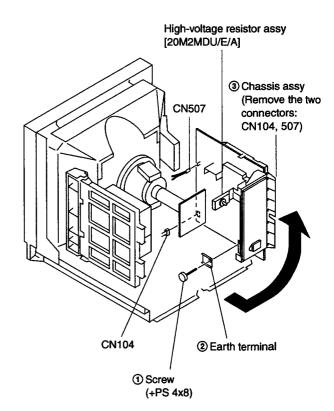
(2) 20M2MDU/E/A



2-2. I/O TERMINAL BOARD ASSY REMOVAL

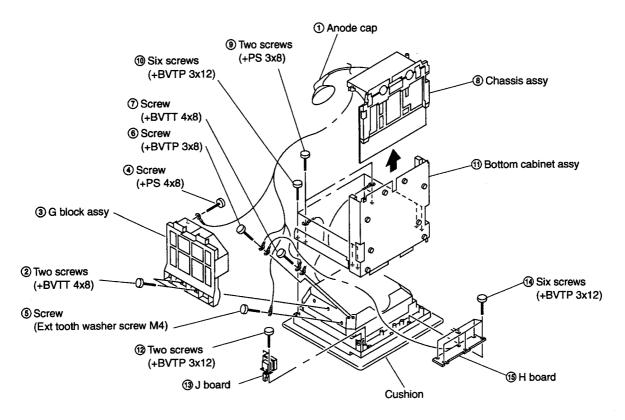


2-3. SERVICE POSITION

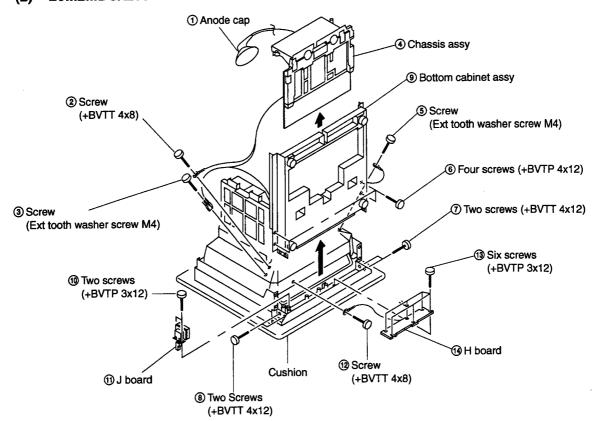


2-4. H AND J BOARDS REMOVAL

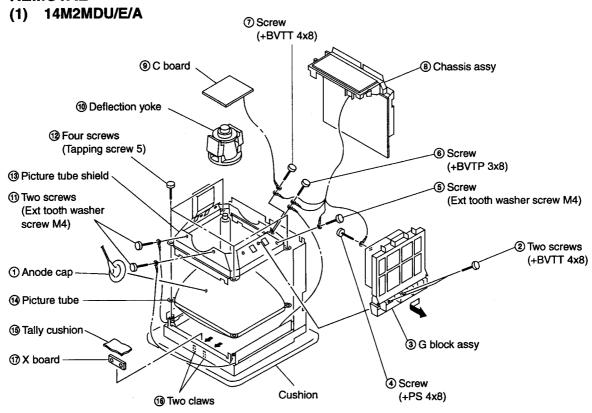
(1) 14M2MDU/E/A



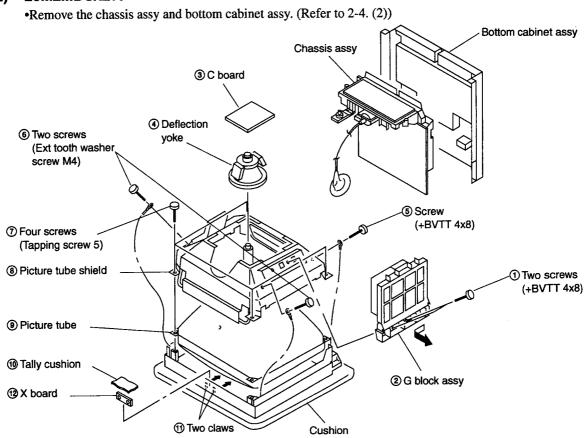
(2) 20M2MDU/E/A



2-5. PICTURE TUBE AND X BOARD REMOVAL



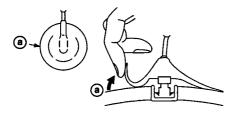
(2) 20M2MDU/E/A



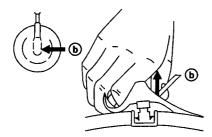
REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

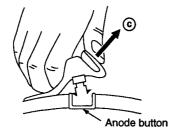
REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



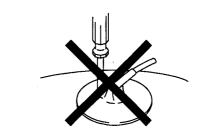
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

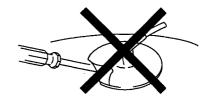


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with shaped material!
- ② Don't press the rubber hardly not to hurt inside of anodecaps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

3-1. PREPARATIONS (1)

SERVICE MODE

This set is provided with a switch for service on the front panel that can be used to make various adjustments. The operation method of this switch is explained in detail below.

- 1. Entering the service mode I
- ① Service mode I

While the menu is displayed, press the [ENTER] and [DEGAUSS] keys simultaneously.

2 Service mode II

While the service mode I is displayed, press the [U/S] and [ENTER] keys simultaneously.

2. Service mode display

Range of Service Mode Display

(1)	(5)	(4)	(3)	(6)
(2)				

- (1) The service items are largely classified into 16 types displayed by titles.
- (2) The names of the service items or READ/WRITE guidance, etc., are displayed. The names are displayed to the left and the guidance to the right.
- (3) This is the serial number for each of the service items. 1-107.
- (4) This is the adjustment data for the service items that are now stored in the RAM. Adjustments can be made by changing these values, but as long as nothing is written to the ROM the adjustment values will be erased by turning off the power or by reading, so please be careful.
- (5) When the adjustment data that is now displayed is identical with the data in the ROM, the cursor (▶) is displayed.
- (6) The present status is displayed.
 - [*]: Writing to the ROM. Make sure not to turn off the power while this display is on.
 - [?]: ROM reading error. In this case, an image is output with the standard adjustment data that the microcomputer itself possesses.
 - [¿]: Problem in the I2C bus.
- 3. Ending the service mode

In the case of the service mode I, press the [ENTER] and [DEGAUSS] keys simultaneously while the service mode is displayed.

In the case of the service mode II, press the [U/S] and [ENTER] keys simultaneously.

4. Easy ON/OFF of the service mode

If once entering the service mode after having turned on the power, easy ON/OFF is possible by once more pressing the A, B or C switch on the front panel (the LED lights) as long as the power is not turned off or as long as the service mode is not finished.

(No function in service mode II)

- 5. Change of position of the service mode display If the switch is continuously pressed when turning on in the above easy mode, the display position moves in the V direction. This method is used when the display is outside of the effective screen area.
- 6. Change of service items
 The items are returned with the [MENU] key and
 forwarded with the [ENTER] key. When a key is
 continuously pressed, the operation will be repeated.
- 7. Change of service data
 The service data is made larger with the [†] key and smaller with the [‡] key. When continuously pressing the keys, the operation will be repeated.
- 8. Reading of service data

When reading data from the ROM to the RAM, press the [RESET] key once and check than the READ display is shown in the guidance, and then press the [RESET] key once again. The adjustment data that is written will return to its previous state, so please be careful.

9. Writing of service data

When writing data from the RAM to the ROM, press the [DEGAUSS] key once and check that the WRITE display shown in the guidance, and then press the [DEGAUSS] key once again. Not only the displayed data will be written, but all data, so please be careful.

10. Carrying out FACTORY RESETTING

In case the adjustment data has been destroyed for some reason, and you keep pressing the [B/O] key at the beginning of the above reading, the READ guidance will change to FACTORY RESET guidance in approximately 3 seconds so that the factory resetting can be carried out. By once again pressing the [RESET] key after this, resetting will be carried out ([*] will be displayed as status) and factory resetting will be executed. However, in case the data available at the time of shipment from the factory has been destroyed, or if the ROM has been replaced, etc., or if factory setting mentioned later on has been carried out, factory resetting is executed.

11. Carrying out FACTORY SETTING

Make sure to make possible the above factory resetting by making a copy of the adjustment data when replacing the ROM. If you keep pressing the [DEGAUSS] key at the beginning of the above writing, the WRITE guidance will change into FACTORY RESET guidance after approximately 3 seconds. By once again pressing the [DEGAUSS] key after this, setting will be carried out ([*] will be displayed as status) and the data will be copied. By carrying out this operation, the selection items of the menu and the adjustment values will be reset to the standard conditions, so please be careful. If this operation is carried out once, it cannot be carried out again, but the FACTORY SET FLAG (No. 107) in the service mode can be set to 1.

1. SERVICE MAP I

Signify (The setting is vary with the destination.)
Refer to the "Table 3-1-2 SERVICE MAP I (2)."

Table 3-1-1 SERVICE MAP I (1)

						IAP I (1)	MAP 1 (2).		
	SERVICE ITEM		MAX	STD	No.	SERVICE ITEM	OANI ODEEN	MAX	STD
1	NOR 50 DEF	H FREQUENCY	255	85	55	C/T2 D??	GAIN <green></green>	1023	700
2		VIDEO PHASE	255	140	56		GAIN <blue></blue>	1023	500
3		V SIZE	255	170	57	C/T3 D??	3200K SW	1	0
4	NOR 60 DEF	H FREQUENCY	255	96	58		BIAS <red></red>	1023	500
5		VIDEO PHASE	255	128	59		BIAS <green></green>	1023	300
6		V SIZE	255	170	60		BIAS <blue></blue>	1023	400
7	NOR DEF	V CENTER	255	128	61		GAIN <red></red>	1023	700
8		H SIZE	255	100	62		GAIN <green></green>	1023	700
9		PIN PHASE	255	128	63		GAIN <blue></blue>	1023	700
10		PIN AMP	255	128	64	USER C/T ORG	3200K SW	1	0
11		LOWER PIN AMP	255	128	65		BIAS <red></red>	1023	600
12		UPPER PIN AMP	255	128	66		BIAS <green></green>	1023	300
13		SEXY	255	128	67		BIAS <blue></blue>	1023	300
14		V LINEARITY	255	128	68		GAIN <red></red>	1023	800
15		V BOW	63	35	69		GAIN <green></green>	1023	700
16		LOWER V BOW	63	20	70		GAIN <blue></blue>	1023	500
17		V ANGLE	63	20	71	W/B	SUB CON <normal></normal>	255	178
	U/S DEF	V SIZE <50>	255	140	72		SUB CON <o s=""></o>	255	178
19	0/0 021	V SIZE <60>	255	140	73		SUB BRIGHT	255	69
20		H SIZE	255	128	74	OTHER	LANDING	255	64
21		PIN PHASE	255	128	75	OTTIER!	SPLIT PHASE	255	0
22		PIN AMP	255	100	76		DEGAUSS DELAY	127	0
	O/S DEF	V SIZE <50>	255	190	77		V HOLD	255	128
23	U/S DEF			190	78		H BLANKING	255	73
24		V SIZE <60>	255				O/S H BLANKING START	255	73
25		H SIZE	255	128	79			_	
26		PIN PHASE	255	128	80		O/S H BLANKING END	255	76
27		PIN AMP	255	150	81		V BLANKING <50>	255	82
28	COMPONENT	SUB PHASE	255	130	82		O/S UPPER V BLK <50>	255	14
29		SUB CHROMA <normal></normal>	255	182	83		O/S LOWER V BLK <50>	255	177
30		SUB CHROMA <smpte></smpte>	255	170	84		V BLANKING <60>	255	161
31		R-Y LEVEL	255	163	85		O/S UPPER V BLK <60>	255	19
32	NTSC	BURST GATE PULSE WIDTH	255	52	86		O/S LOWER V BLK <60>	255	230
33		CRYSTAL	255	59	87		HP POSITION	255	145
34		PHASE	255	80	88		HP WIDTH	255	148
35		B-Y PHASE	255	162	89	SYSTEM	358 TRAP FILTER	1	0
36		CHROMA	255	98	90		CAPTION VISION	7	0
37		R-Y LEVEL	255	98	91		COMPONENT LEVEL	3	*
38	PAL	CRYSTAL	255	82	92		NTSC SETUP LEVEL	1	_*
39		PHASE	255	110	93		CHROMA SET UP	1	0
40		B-Y PHASE	255	122	94		COLOR SYSTEM DISPLAY	3	0
41		CHROMA	255	109	95		COLOR TEMPERATURE	3	0
42		R-Y LEVEL	255	121	96		USER PRESET	1	0
43	C/T1 D??	3200K SW	1	0	97		LANGUAGE	7	0
44		BIAS <red></red>	1023	600	98		RGB MODE A	3	1
45		BIAS <green></green>	1023		99		RGB MODE B	3	1
46		BIAS <blue></blue>	1023	300	100		AGING MODE	1	0
47		GAIN <red></red>	1023		—		REMOTE MODE KEY	1	0
48		GAIN <green></green>	1023		102		MODEL	31	*
49		GAIN <blue></blue>	Ļ	500	103		COLOR TEMP DISP 1	127	65
50		3200K SW	1	0	104		COLOR TEMP DISP 2	127	56
51	J. I.E. U. :	BIAS <red></red>	1023		105		COLOR TEMP DISP 3	127	93
52	 	BIAS <green></green>		300	-		REMOTE ADDRESS	63	1
53		BIAS <blue></blue>	1023		-		FACTORY SET FLAG	1	0
54		GAIN <red></red>	1023		10/		TAGIONI GETTEAG		
1 04	1	GAIN STEDS	1023	000	<u> </u>	L			

Table 3-1-2 SERVICE MAP I (2)

Model Name	Component level	NTSC Set-up level	Model
PVM-20M2MDU	1	1	0
PVM-20M2MDE	2	0	2
PVM-20M2MDA	2	0	3
PVM-14M2MDU	1	1	4
PVM-14M2MDE	2	0	6
PVM-14M2MDA	2	0	7

2. SERVICE MAP II

Table 3-1-3 SERVICE MAP II

	OEDWOE ITEM		S	rD
	SERVICE ITEM	MAX	14inch	20inch
1	W/B NTSC R-Y	255	174	171
2	W/B NTSC B-Y	255	161	158
3	W/B PAL R-Y	255	176	180
4	W/B PAL B-Y	255	160	158
5	W/B COMPONENT A R-Y	255	161	174
6	W/B COMPONENT A B-Y	255	156	178
7	W/B COMPONENT B R-Y	255	161	174
8	W/B COMPONENT B B-Y	255	156	178
9	W/B RGB A R-Y	255	114	127
10	W/B RGB A B-Y	255	131	134
11	W/B RGB B R-Y	255	114	127
12	W/B RGB B B-Y	255	131	134
13	LINE A CONTRAST	100	50	50
14	LINE A BRIGHT	100	50	50
15	LINE B CONTRAST	100	50	50
16	LINE B BRIGHT	100	50	50
17	RGB A CONTRAST	100	50	50
18	RGB A BRIGHT	100	50	50
19	RGB B CONTRAST	100	50	50
20	RGB B BRIGHT	100	50	50

3-2. PREPARATION (2). INITIALIZATION

* Supply composite video or component signals as shown in Table 3-2.

Table 3-2

Signal		Details of signal	Standard level P-W
Composite video	358NT	100% white	0.714V
video		75% white	0.536V
	PAL	100% white	0.7V
	FAL	75% white	0.525V
		100% white Y	0.7V
	BETA0	75% white Y	0.525V
		75%color B-Y, R-Y	0.7V
Component		only)	
		100% white Y	0.7V
	SMPTE	75% white Y	0.525V
		75%color B-Y, R-Y	0.525V
		only)	
Voice	e/sound	-5dBs	0.436Vrms

*	In this chapter, indicates the control items in	1
	the service mode.	
	Example: 60 H-FREQ	

* Before turning off the power after adjustment in the service mode, write the adjustment data. When the power is turned off before writing, adjusted data will all be lost.

3-3. WRITING MODEL DATA

 Write model data on respective models in the service mode at the location of No.102 MODEL in accordance with Table 3-3.

Table 3-3

Model	Model data
PVM-20M2MDU	0
PVM-20M2MDE	2
PVM-20M2MDA	3
PVM-14M2MDU	4
PVM-14M2MDE	6
PVM-14M2MDA	7

2. Write the following data in the service mode at the location of No.103 COLOR TEMP DISP 1.

COLOR TEMP DISP 1

65

3. Write the following data in the service mode at the location of No.104 COLOR TEMP DISP 2.

COLOR TEMP DISP 2

56

4. Write the following data in the service mode at the location of No.105 COLOR TEMP DISP 3.

COLOR TEMP DISP 3

<u>93</u>

* Standard inspection state

Unless otherwise specified in this manual, make adjustment under the following conditions:

APERTURE	MIN	(Turn FLAT fully counterclockwise.)
BRIGHT	50%	(Center click)
CHROMA	50%	(Center click)
PHASE	50%	(Center click)
CONTRAST	80%	(Center click)
VOLUME	50%	

3-4. PICTURE OUTPUT

1. AC input voltage setting

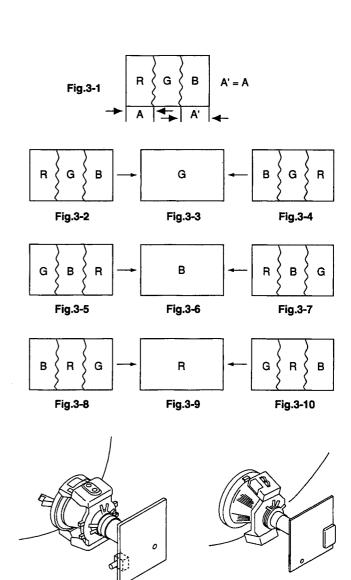
- 1. Input VIDEO signals and AUDIO signals to respective terminals on the connector panel.
- 2. Set the sliduck AC voltage as shown in Table 3-4.

Table 3-4

Group of models	Voltage
PVM-20M2MDU PVM-14M2MDU	AC 120±3V (Same as above)
PVM-20M2MDE PVM-20M2MDA PVM-14M2MDE PVM-14M2MDA	AC 220±3V (Same as above)

3-5. LANDING ADJUSTMENT

- CONT ... MAX
 BRT ... Conspicuous position
- 2. Roughly adjust the white balance, G2, and convergence.
- 3. Switch the rotary SW of the single color switch to change the color into green only.
- Adjust the purity knob so that the green will come to the center of the screen. Make R and B almost identical. (Fig. 3-1)
- 5. Switch to B only, R only, and G only and verify each. (Figs.3-1, 3-2, and 3-3)
- 6. Bring the deflection yoke gradually forward and adjust the deflection yoke so that R and B on both sides of the screen will be green. (Fig.3-2 n Fig. 3-3)
- 7. If the deflection yoke comes forward too much, the pattern shown in Fig.3-4 will appear. If so, move the deflection yoke backward. (Fig.3-4 n Fig.3-3)
- 8. Switch the single color switch to B and verify the single color. (Fig.3-6)
- 9. Switch the single color switch to R and verify the single color. (Fig.3-9)
- 10. When two colors are mixed, set the mixed color as the standard, and repeat operations 6 and 7.
- 11. Switch to an all-white signal and check the uniformity.
- 12. When the deflection yoke position is determined, fasten it with the fixture.



20inch Fig.3-11

14inch

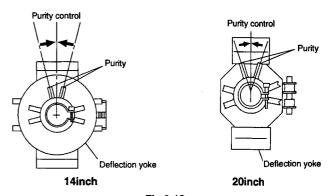


Fig.3-12

3-6. CONVERGENCE ADJUSTMENT (1)

- Input a dot pattern signal.
 CONT Conspicuous position
 BRT MIN
- 2. Align the horizontal R, G, and B dots at the center of the screen with the H-START VR.
- When H-CENT is changed after H-STAT adjustment, readjust H-STAT. (H-STAT will change by means of H-CENT VR.)
- 3. Align the vertical location of R, G, and B in the center of the screen with the V-STAT Mg. (Fig.3-13, 3-14)
- * After V-STAT adjustment, paint-lock the knob.

V-STAT Mg knob

While keeping the angles A and B equal (I = I'), align the vertical convergence.

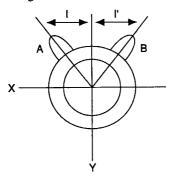


Fig. 3-13 Good example

If the A and B knobs are not symmetrical ($I \neq I'$), the focus may deteriorate, beam striking or other adverse effects may occur.

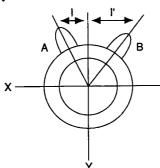


Fig. 3-14 Bad example

4. For HMC, use the BMC Mg to adjust the R and B dots so that they will be symmetrical horizontally with respect to the G dot.

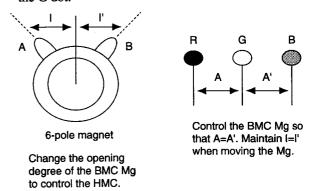


Fig. 3-15

5. For VMC, use the MBC Mg to adjust the R and B dots so that they will be symmetrical vertically with respect to the G dot.

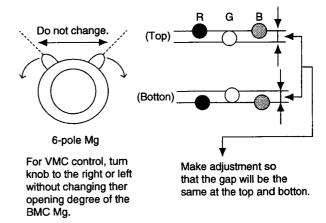
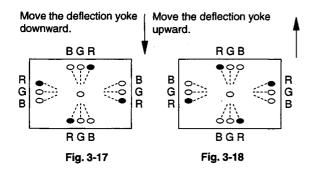


Fig. 3-16

- 6. Repeat adjustments 2. to 5.
- * The above adjustment may affect the landing, so after adjustment, check the landing again.
- 7. Paint-lock the knobs after adjustment.

3-7. DEFLECTION YOKE NECK ROTATION ADJUSTMENT

- If there is nonconvergence on both sides of the X or Y axis of the screen, turn the neck of the deflection yoke in the direction of the arrow to hold the nonconvergence for the entire CRT screen within the tolerance.
 - (1) Reverse cross misconvergence pattern
- (2) Regular cross misconvergence pattern



- (3) Pattern of left-sided deflection yoke
- (4) Pattern of right-sided deflection yoke

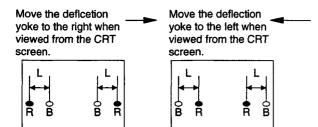


Fig. 3-19

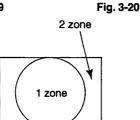


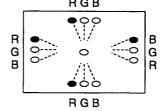
Fig. 3-21

2. Insert the wedge between the deflection yoke and CRT funnel to lock the deflection yoke. (Fig.3-22)



Fig. 3-22

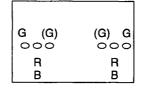
3. The following patterns cannot be corrected by turning the neck. (Figs.3-23, 3-24, and 3-25)



* Gun rotatuon

The X-axis and Y-axis beams are distorted on both sides.

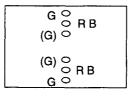
Fig. 3-23



* HCR Large(Small)

The horizontal portion of the G raster is wider(narrower) than that of the RB raster on both sides of the screen.

Fig. 3-24



* VCR Large(Small)

The vertical portion of the G raster is wider(narrower) than that of the RB raster on both sides of the screen.

Fig. 3-25

3-8. CONVERGENCE ADJUSTMENT (2)

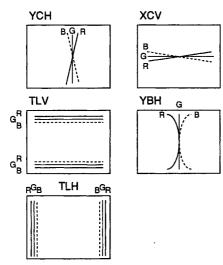


Fig. 3-26 Convergence compensation VR,coil, and compensator

Note: When adjustment is insufficient, use permalloy for perfect adjustment.

1. 14 inch Models

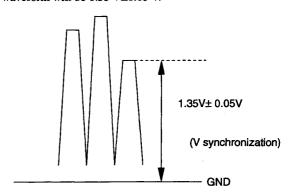
- 1. Input a cross-hatch signal.
- 2. Make adjustment with the TLV, YCH VR, and XCV coils of the deflection yoke to minimize nonconvergence.
- 3. When the nonconvergence of the TILT component is included in the horizontal convergence, insert the TLH compensator into the deflection yoke for adjustment. (Fig.3-26)

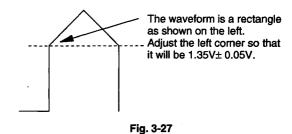
2. 20 inch Models

- 1. Input a cross-hatch signal.
- 2. Make adjustment with the XCV coil of the deflection yoke to minimize nonconvergence.
- 3. When the nonconvergence of the TILT component is included in the vertical convergence, insert the TLV compensator into the deflection yoke for adjustment. (Fig.3-26)

3-9. G2 ADJUSTMENT

- 1. Input a 525 monoscope signal.
- 2. Connect the probe of the oscilloscope to TP403 on the A board.
- 3. Measure the lowest reference pulse of the three.
- Make adjustment with SCREEN VR so that the left end of the waveform will be 1.35 V±0.05 V.





3-10. WHITE BALANCE ADJUSTMENT

- 1. Input a 525 monoscope signal. (Input from LINE A or B with no burst.)
- 2. Set as follows:

CONT 0%

BRT 50%

3. Adjust <u>SUB-BRIGHT</u> in the service mode so that the 20-tone gray scale will be as follows:

0 and 5 IRE \rightarrow Cut off

10 IRE → Slight glow

- 4. Input 525 all-white (COMPOSITE signal without burst).
- 5. Set CONT VR to 80%.
- 6. Adjust the all-white luminance so that the screen luminance will be 3 NIT.
- 7. Press MENU and select COL TEMP SELECT.
- 8. Select 6500K.

Set 3200K SW to "0" for both T1, T2 and T3.

- 9. Put the unit into the service mode.
- 10. Adjust to the standard values with <RED> and <BLUE> of C/TT 6500K BIAS. (Refer to NOTE:)
- 11. Switch the all-white signal luminance to 100 IRE.
- 13. Repeat adjustment (10, 11, and 12) until the adjustment is complete, and then write the adjustment data.
- 14. Press MENU and select COL TEMP SELECT.
- 15. Select 5600K.
- 16. Adjust C/T2 5600K BIAS C/T2 5600K GAIN in the same manner as adjustments 10. to 13..
- 17. The adjustment is complete, and then write the adjustment data
- 18. Press MENU and select COL TEMP SELECT.
- 19. Select 9300K.
- 20. Adjust C/T3 9300K BIAS C/T3 9300K GAIN in the same manner as adjustments 10. to 13.. (Refer to NOTE:)
- 21. The adjustment is complete, and then write the adjustment data.

NOTE: Set cut-off to 3NIT.

Fix as follows: <GREEN> BIAS GREEN ... "300" GAIN GREEN ... "700"

<Standard Values>

COL TEMP 1 ... 6500K + 8MPCD COL TEMP 2 ... 5600K + 8MPCD COL TEMP 3 ... 9300K + 8MPCD

3-11. SUB BRT ADJUSTMENT

- 1. Input a 525 monoscope signal.
- 2. Set as follows:

CONT.... Min

BRT 50%

- 3. Select SUB BRIGHT in the service mode.
- 4. Adjust SUB BRIGHT so that 10 IRE glows slightly and 0 IRE is cut off.

3-12. FOCUS ADJUSTMENT

1. 20 inch Models

- 1. Input a 525 monoscope signal.
- 2. Adjust the focus to optimize the focus on the characters "30" at

the center of the screen with FOCUS PACK VR.

- 3. Switch to an all-white signal and check the uniformity.
- 4. After focus adjustment, paint-lock the FOCUS PACK VR knob.

2. 14 inch Models

- 1. Input a 525 dot signal.
- Make adjustment so that the center dot and center of the dots on both sides are not separated with using RV707 on C board.
- 3. Check that the resolution is more than 600 lines by means of a digital monoscope signal.
- 4. Change an all-white signal, and check that the magenta ring is unconspicuous by means.

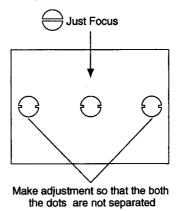


Fig. 3-28

SECTION 4 SAFETY RELATED ADJUSTMENT

R1536

R551, R506, R519, R518, R516, R515, R508, R517, R1536, R1560, R1537, C549, C512, C513, C523, C592, D501, D533, Q500, Q511, IC500, and IC507

When the following parts are replaced, check the +B voltage: IC600, IC602, D610, C615, C631, C621, C632, and T603

Confirmation procedure

- 1. Input 120 VAC.
- Input a monoscope signal, and minimize CONTRAST and BRIGHT.
- 3. Check that the voltage of the CN605 ① pin is 115.7 VDC.

4-1. CONFIRAMATION OF +B MAXIMUM

Standard: Less than 115.7 VDC(CN605 pin ①) Check Condition Input voltage: 130 VAC

Note: Use NF Power Supply or make sure that distortion factor is 3% or less.

Input signal: Monoscope

Controls: BRT & CONT → Normal

4-2. CONFIRAMATION OF HOLD-DOWN CIRCUIT

Check Condition Input voltage: 130 VAC

Input signal: White &Dot

Controls: BRT & Cont → Max. & Min.

4-2-1. Hold-Down Circuit (+B)

a) Adjust the beam current to 1000±50μA (20 inch), 600±50μA (14 inch) with the pin ② of CN605 with the external DC power supply (less than 130.0 VDC (20 inch), 127.0 VDC (14 inch))to the point just before the holddown circuit works.

Input Signal: White

b) Adjust the beam current to 100±20μA (20 inch), 80±20μA (14 inch) with the pin ② of CN605 with the external DC power supply (less than 131.0 VDC (20 inch), 127.0 VDC (14 inch))to the point just before the hold-down circuit works.

Input Signal: Dot

4-2-2. Hold-Down Circuit (3rd Wire voltage of FBT)

Check item: Check of pin ① of IC500 voltage: more than 110.0VDC

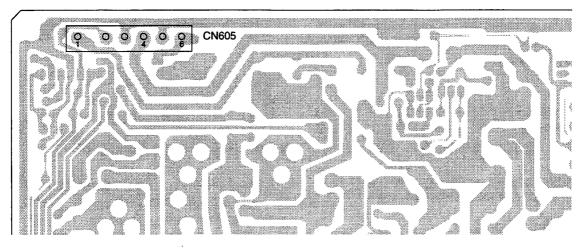
a) Adjust the beam current to 1000±50μA (20 inch), 600±50μA (14 inch) with the pin ① of IC500 with the external DC power supply (less than 141.0 VDC)to the point just before the hold-down circuit works.

Input Signal: White

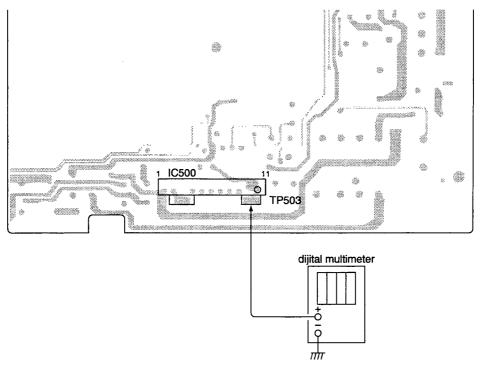
b) Adjust the beam current to 100±20μA (20 inch), 80±20μA (14 inch) with the pin ① of IC500 with the external DC power supply (less than 143.0 VDC (20 inch), 141.0 VDC (14 inch))to the point just before the hold-down circuit works.

Input Signal: Dot

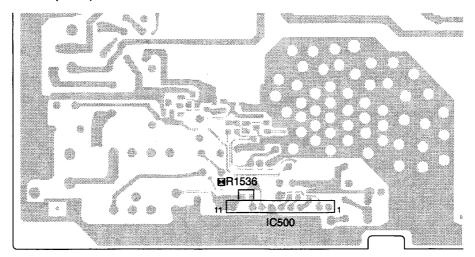
G board



A board (A side)

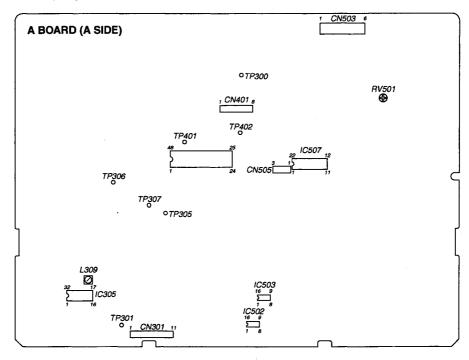


A board (B side)



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. A BOARD ADJUSTMENT



1. PREPARATION/SIGNAL SPECIFICATIONS

1. Signal specifications

* Supply a composite video or component signals from the CN301 connector. Refer to Table 5-1 to take into consideration the effect on the Q board.

The level of the signal to supply should equal to values shown in Table 5-1 plus/minus 2% max.

Table 5-1

Signal		Details ofsignal	Standard level (Pedestal white)	Reduction rate %	Connector supply level (P·W)
		100% white	0.714V	93%	0.664V
		75% white	0.536V	93%	0.498V
	358NT	Burst			
Composite		(Green section)	286mV	94%	269mV
video		(P-P for this	(632mV)	(94%)	(594mV)
		item only)			
(75% color		100% white	0.7V	94%	0.651V
bar)		75% white	0.525V	94%	0.488V
1	PAL	PAL burst	}		
]		(Green section)	300mV	94%	282mV
		(P-P for this	(664mV)	(94%)	(624mV)
		item only)			
ł		100% white	0.7V	94.8%	0.664V
		75% white	0.525	94.8%	0.498V
	BETA 0	75% color			
Compo-		B-Y, R-Y	0.7V	94.8%	0.664V
nent	1	(P-P for this			
		item only)			
l .		100% white	0.7 V	94.8%	0.664V
(75% color		75% white	0.525V	94.8%	0.498V
bar)	SMPTE	75% color	ľ		
l	, -	B-Y, R-Y	0.525	94.8%	0.498V
l	f	(P-P for this			
	<u> </u>	item only)			l l

2. Preparation

* In this chapter, _____ indicates the control items in the service mode.

Example: 60 H-FRQ

 Write the applicable model data at the location of NO.102 MODEL in the service mode.

PVM-20M2MDU....0

PVM-20M2MDE 2

PVM-20M2MDA 3

PVM-14M2MDU 4

PVM-14M2MDE 6

PVM-14M2MDA 7

2. ADJUSTMENT OF DEFLECTION SYSTEM

1. Adjustment of horizontal oscillation frequency

- 1. Input a 525 monoscope signal.
- 2. Set as follows:

CONT ... 80%

BRT 50%

- 3. Set the unit in the service mode.
- Connect the IC507 ①PIN on the A board to GND via the 100μ/16V chemical capacitor. (Use CN505③PIN for GND.) Or insert the H-FREQ jig into CN505.

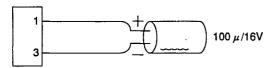
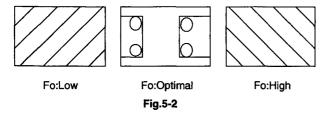


Fig.5-1 H-FREQ jig

- 5. Adjust 60 H-FREQ so that the slanting lines on the screen will be vertical. (Fig.5-2)
- 6. Input a 625 monoscope signal.
- 7. Adjust 50 H-FREQ so that the slanting lines on the screen will be vertical. (Fig.5-2)



2. H BLANKING adjustment

- 1. Input a 525 monoscope signal.
- 2. Set as follows:

CONT ... 80%

BRT 50%

- 3. Set the unit in the service mode.
- 4. Observe the anode of TP300 or D516 with an oscilloscope, and adjust <u>H-BLANKING</u> so that the waveform will be as shown in Fig.5-3.

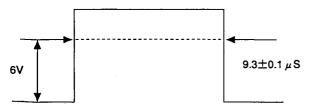


Fig.5-3

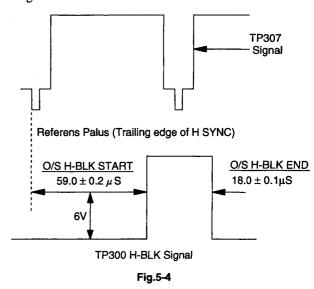
3. O/S H BLANKING adjustment

- 1. Input a 525 monoscope signal.
- 2. Set the unit in the OVER SCAN mode.
- 3. Set as follows:

CONT ... 80%

BRT 50%

- 4. Set the unit in the service mode.
- 5. Observe the anode of TP307 and TP300 or D516 with an oscilloscope, and adjust O/S H-BLK START and O/S H-BLK END so that the waveform will be as shown in Fig.5-4.



4. Picture phase adjustment

- 1. Input a 525 monoscope signal.
- 2. Set the unit in the UNDER SCAN mode.
- 3. Set as follws:

CONT ... Min.

BRT Max.

- 4. Set the unit in the service mode.
- 5. Adjust **U/SHSIZE** so that the white frame of the monoscope will be approx. 1 cm to the inside of the effective screen.
- 6. Turn RV501 (H-CENT) so that B = B'.
- 7. Adjust 60 VIDEO PHASE so that the signal area will be in the center (A = A') of the deflection area. (Fig.5-5)
- 8. Input a 625 monoscope signal.
- 9. Adjust 50 VIDEO PHASE in the same manner.

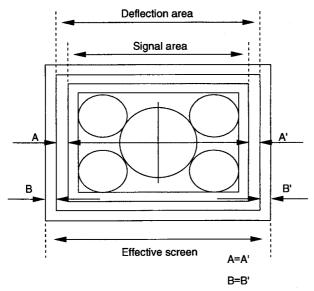


Fig.5-5

5. V BLANKING adjustment

- 1. Input a 525 monoscope signal.
- 2. Set the unit in the UNDER SCAN mode.
- 3. Set as follows:

CONT ... Min.

BRT ... Max.

- 4. Set the unit in the service mode.
- 5. Adjust V-BLANKING <60> so that the white frame in the upper section of the monoscope will be about to be blanked.

Note: Blanking up to the point 1H away from the white frame is permissible, but the adjusting center should be up to the point 0.5H away from the frame.

- 6. Input a 625 monoscope signal.
- 7. In the same way as 5. shown above, adjust V-BLANKING 50.

6. Vertical deflection adjustment

- 1. Input a 525 monoscope signal.
- 2. Set as follows:

CONT 80%

BRT 50%

- 3. Set the unit in the service mode.
- 4. Roughly adjust NOR 60 V.SIZE so that the size will be 12 frames.

Adjust V.LIN with V.LIN.

Adjust CENT with V.CENT.

V.CENT must be reviewed after adjustment of V.LIN.

Adjust NOR 60 V.SIZE so that it will equal the standard value.

- 5. Input a 625 signal.
- 6. Adjust NOR 50 V.SIZE so that the SIZE will equal the standard value.

Table 5-2 NORMAL V. SIZE standard

	525	625
4:3	11.75±0.2 frames	11.2±0.2 frames

7. Horizontal deflection adjustment (Normal scan adjustment)

- 1. Input a 525 monoscope signal.
- 2. Set as follows:

CONT ... 80%

BRT 50%

- 3. Set the unit in the service mode.
- 4. Rough adjustment of H.SIZE Roughly adjust NOR H.SIZE so that H.SIZE will be 15.75 frames.
- 5. Adjust the horizontal deflection by means of NOR PIN AMP, NOR PIN PHASE, NOR U.PIN AMP, SEXY, V BOW, VANGL, NOR H SIZE, L PIN AMP, and L V BOW.

(While correcting a distorted parallelogram and curvature with V.ANGL and BOW, make adjustment so that the horizontal and vertical lines of the screen will be straight.)

- 6. Input a 625 monoscope signal.
- 7. Confirm that the screen is normal.

Table 5-3 NORMAL H. SIZE standard

	525	625
4:3	15.75±0.2 frames	15.0±0.2 frames

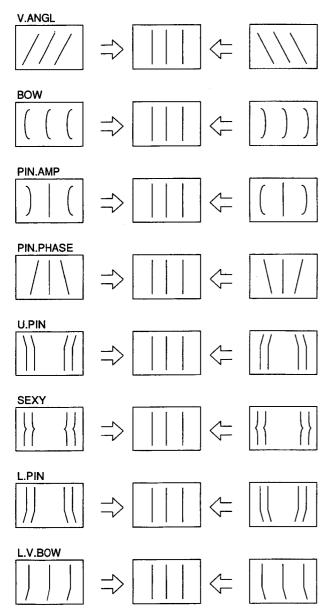


Fig.5-6

8. UNDER SCAN adjustment

- 1. Input a 525 monoscope signal.
- 2. Set as follows:

CONT 80%

BRT 50%

- 3. Set the unit in the U/S mode.
- 4. Set the unit in the service mode.
- 5. Adjust <u>U/S V SIZE <60></u> so that UNDER V.SIZE will be within the standard.
- 6. Adjust UNSH SIZE so that UNDER H.SIZE will be within the standard.
- 7. Adjust <u>U/S PIN AMP</u> and <u>U/S PIN-PHASE</u>. (Adjust tracking according to 5., 6., and 7.)
- 8. After adjustment, the white frame of the monoscope shall not be out of the effective screen.

- 9. Input a 625 monoscope signal.
- 10. Adjust U/S V SIZE <50> becomes within the standard value.

Table 5-4
Standerd values for 14 inch

	525	625
U/S H-SIZE	252 ± 2mm	252 ± 2mm
U/S V-SIZE	188 ± 2mm	188 ± 2mm

Table 5-5
Standerd values for 20 inch

	525	625
U/S H-SIZE	364 ± 3mm	364 ± 3mm
U/S V-SIZE	272 ± 3mm	272 ± 3mm

9. OVER SCAN adjustment

- 1. Input a 525 monoscope signal.
- 2. Set as follows: CONT ... 80% BRT 50%
- 3. Set the unit in the O/S mode.
- 4. Set the unit in the service mode.
- 5. Adjust O/S H.SIZE so that H.SIZE becomes 13.6 frames and O/S V SIZE <600 so that V.SIZE becomes 10.2 frames.
- 6. Adjust horizontal deflection section with O/S PIN AMP O/S PIN PHASE .
- 7. Input a 625 monoscope signal.
- 8. Adjust O/S V SIZE <50> becomes within the standard value.

Table 5-6 Standerd value

	525	625
O/S H-SIZE	13.6 ± 0.2 frame	13.0 ± 0.2 frame
O/S V-SIZE	10.2 ± 0.2 frame	9.8 ± 0.2 frame

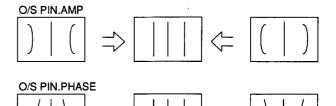


Fig.5-7

10. Writing adjustment results

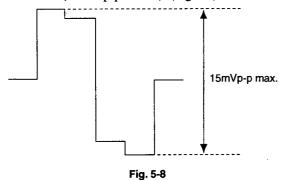
Write the adjustment results.

Note: Do not turn off the power before writing the adjustment results; otherwise, they will all be lost.

3. Signal system adjustment

1. SUB PHASE adjustment

- Input a component color bar (R-Y) and EXT SYNC. (BETA 0 level signal)
- 2. Set the unit in the EXT SYNC mode for component input.
- 3. Connect the probe of an oscilloscope to IC404 ® PIN or TP402
- 4. Set the unit in the service mode.
- 5. Adjust SUB PHASE so that the output waveform will be minimum (15 mVp-p or less). (Fig.5-8)



2. SUB CHROMA adjustment

- 1. Input component color bars (R-Y, Y, and B-Y). (BETA 0 level signal)
- 2. Set COMPONENT LEVEL to BETA 0 via MENU.
- 3. Connect the probe of an oscilloscope to IC404 **30** PIN or TP402.
- 4. Set the unit in the service mode.
- 5. Adjust SUB CHROMA NORMAL so that the peaks of waveforms will be flush with each other as shown in Fig.5-9.

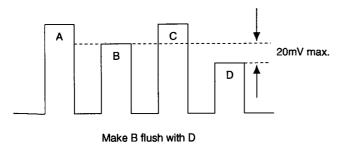
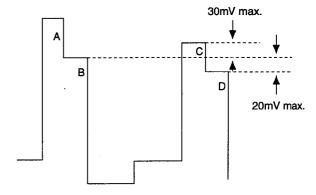


Fig. 5-9

3. R-Y LEVEL adjustment

- 1. Input component color bars (R-Y, Y, and B-Y). (BETA 0 level signal)
- 2. Set COMPONENT LEVEL to BETA 0 via MENU.
- 3. Connect the probe of an oscilloscope to IC404 @ PIN or TP401.
- 4. Set the unit in the service mode.
- 5. Adjust R-Y LEVEL COMPONENT so that the peaks of waveforms will be flush with each other as shown in Fig.5-10.

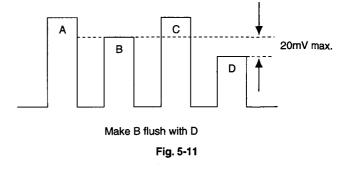


Make adjustment so that B = D as shown above. (20 mV max.) Check that the difference between B and C is 30 mV or less.

Fig. 5-10

4. SMPTE SUB COL adjustment

- 1. Input component color bars (R-Y, Y, and B-Y). (SMPTE level signal)
- 2. Set COMPONENT LEVEL to N10/SMPTE via MENU.
- 3. Connect the probe of an oscilloscope to IC404 **@PIN** or TP402.
- 4. Set the unit in the service mode.
- 5. Adjust SUB CHROMA SMPTE so that the levels of B and D will be the same. (Fig.5-11)



5. Adjustment of burst gate pulse width

- 1. Input an NTSC color bar.
- 2. Connect the probe of an oscilloscope to TP301 (COMP-SYNC) and Q363 (E) or IC305 ①PIN. (Exercise care since IC305 (1) PIN is a high-impedance line.)
- 3. Set the unit in the service mode.
- 4. Adjust BGP WIDTH so that the output waveforms will be as shown in Fig.5-12.

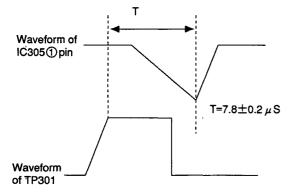


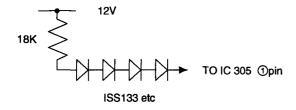
Fig. 5-12

6. VXO adjustment

6-1. X'tal 358

- 1) Input an NTSC color bar.
- 2) Connect a frequency counter to IC305 @PIN.
- 3) Set the unit in the service mode.
- 4) Connect IC305 ①PIN as shown in Fig.5-13.
- Adjust NTSC CRYSTAL so that the counter reading will be within the standard values shown below. (Adjustment may be made at a point at which the color flickering stops.)

X'tal 358 standard vlaue: 3579545±20 Hz



(Arrange four diodes as close as possible to ①PIN at the shortest possible distance.)

Fig. 5-13

6-2. X'tal 443

- 1) Input a PAL color bar.
- 2) Connect a frequency counter to IC305 @PIN.
- 3) Set the unit in the service mode.
- 4) Connect IC305 ①PIN in the same way as 6-1. 4) in 6. VXO adjustment.
- 5) Adjust NTSC 443 CRYSTAL in the same way as 6-1. 5) in 6. VXO adjustment.

X'tal 443 standard value: 4433619±20 Hz

7. NTSC . PAL color demodulation adjust ment

7-1. NT358PHASE (NORMAL)

- 1) Input an NTSC color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the service mode.
- 4) Adjust PHASE NTSC 358 NOR so that the burst section of the output waveform will be straight. (Fig.5-14)

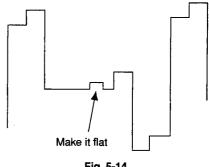


Fig. 5-14

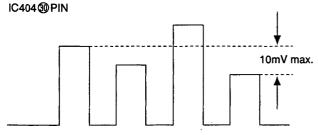
7-2. NT 358 B-Y PHASE

Note: Make adjustment after PHASE adjustment and before CHROMA adjustment.

- Input an NTSC color bar. (Input only the R-Y component. B-Y and Y should be OFF.)
- 2) Connect the probe of an oscilloscope to TP305.
- 3) Set the unit in the service mode.
- 4) Adjust B-Y PHASE NTSC 358 so that the color components will be straight.

7-3. NT 358 CHROMA (NORMAL)

- 1) Input an NTSC color bar.
- 2) Connect the probe of an oscilloscope to IC404 @PIN or TP402.
- 3) Set the unit in the service mode.
- 4) Adjust CHROMA NTSC 358 NOR so that the peaks of waveforms will be flush with each other as shown in Fig.5-15.

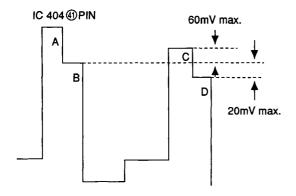


Make adjustment so that the 1st and 4th peaks are at the same level.

Fig. 5-15

7-4. NTSC 358 R-Y LEVEL

- 1) Input an NTSC 358 color bar.
- 2) Connect the probe of an oscilloscope to IC404 **(4)**PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust <u>R-Y LEVEL NTSC 358</u> so that the peaks of waveforms will be flush with each other as shown in Fig.5-16.

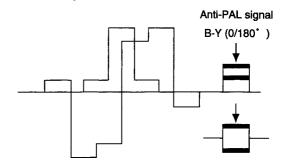


Make adjustment so that B=D as shown above.(20mV max.) Check that the difference between B and C is less than 60mV.

Fig. 5-16

7-5. PAL PHASE (NORMAL)

- 1) Input a PAL SP color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the service mode.
- 4) Adjust PHASE PAL NOR so that the waveform of the B-Y anti-PAL signal will be "0."

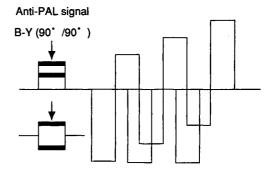


*The signal waveform differs slightly every hour. Adjust it to "0."

Fig. 5-17 R-Y OUT

7-6. PAL B-Y PHASE

- 1) Input a PAL SP color bar.
- 2) Connect the probe of an oscilloscope to TP305.
- 3) Set the unit in the service mode.
- 4) Adjust **B-Y PHASE PAL** so that the waveform of the R-Y anti-PAL signal will be "0." (Fig.5-18)



*The signal waveform differs slightly every hour. Adjust it to "0."

Fig. 5-18 B-Y OUT

7-7. PAL CHROMA (NORMAL)

- 1) Input a PAL color bar.
- 2) Connect the probe of an oscilloscope to IC404 **39PIN** or TP402
- 3) Set the unit in the service mode.
- 4) Adjust CHROMA PAL NOR so that the peaks of waveforms will be flush with each other. (Fig. 5-19)

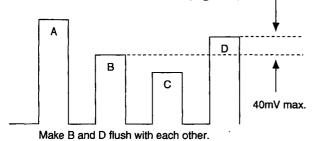


Fig. 5-19

7-8. PAL R-Y LEVEL

Note: Be sure to set ACC in the ON position before this adjustment.

- 1) Input a PAL color bar.
- 2) Connect the probe of an oscilloscope to IC404 **(4)**PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust R-Y LEVEL PAL so that the peaks of waveforms will be flush with each other as shown Fig.5-20.

IC404 @PIN

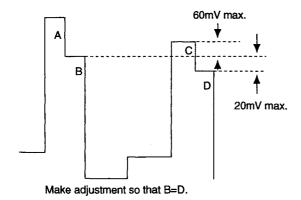


Fig. 5-20

8. W/B plunge correction

- 8-1. Adjustment of NTSC composite
- 1) Input the 525 all white (with burst) cut-off signal to LINE A.
- 2) Select LINE A input.
- 3) Adjust the brightness becomes 3 cd/m² with CONT and BRT VR.
- 4) Turn CHROMA VR to MIN, and measure the color temperature.
- 5) Turn CHROMA VR to MAX, and make adjustment with NTSCB-Y and NTSCR-Y so that the color temperature will be the same as the value measured in item 4). Standard adjustment: The difference should be within 2 JND when CHROMA MIN → MAX.

8-2. Adjustment of PAL composite

- 1) Input the 625 all white (with burst) cut-off signal.
- 2) Repeat the operations 8-1. 2), 3), and 4).
- 3) Turn CHROMA VR to MAX, and make adjustment with [PAL B-Y] and [PAL R-Y] so that the color temperature will be the same as the value measured in item 4). Standard adjustment: The difference should be within 2 JND when CHROMA MIN → MAX.

8-3. Adjustment of COMPONENT

- 1) Input the 525 all white cut-off signal to RGB A CHY. NTSC all white (with burst) may be input.
- 2) Select COMPONENT A CH.
- 3) Repeat the operations 8-1. 3) and 4).
- 4) Turn CHROMA VR to MAX, and make adjustment with CONPONENT A B-Y and CONPONENT A R-Y so that the color temperature will be the same as the value measured in item 4).
 - Standard adjustment: The difference should be within 2 JND when CHROMA MIN Æ MAX.
- 5) Input the 525 all white cut-off signal to RGB CHY. NTSC all white (with burst) may be input.
- 6) Select COMPONENT B CH
- 7) Repeat the operations 8-1. 3) and 4).
- 8) Turn CHROMA VR to MAX, and make adjustment with CONPONENT B B-Y and CONPONENT B R-Y so that the color temperature will be the same as the value measured in item 4).

Standard adjustment: The difference should be within 2 JND when CHROMA MIN \rightarrow MAX .

9. Adjustment of SUB CONT

- 1) Input the window signal.
- 2) Enter the Normal mode.
- Attach a luminance meter to the window of the CRT surface.
- 4) Make adjustment so that the values will be as shown in Table 5-7 with SUB CON NORM.
- 5) Enter the O/S mode.
- 6) Make adjustment so that the values will be as shown in Table 5-7 with SUB CON < O/S>.

	Table 5-7	Unit (cd/m²)
	14 inch	20 inch
SUB CON <norm></norm>	170±20	150±20
SUB CON <o s=""></o>	170±20	150±20

10. Fine adjustment of CONT/BRT level of each input

When the same signal is input to each input terminal, the CONT/BRT level may

change slightly. In that case, fine adjustment of CONTRAST/BRIGHTNESS can

be made for each input terminal.

11. Writing the result of adjustment

Write the result of adjustment in the memory.

5-2. G AND GA BOARDS ADJUSTMENT

1. Checking the output lines

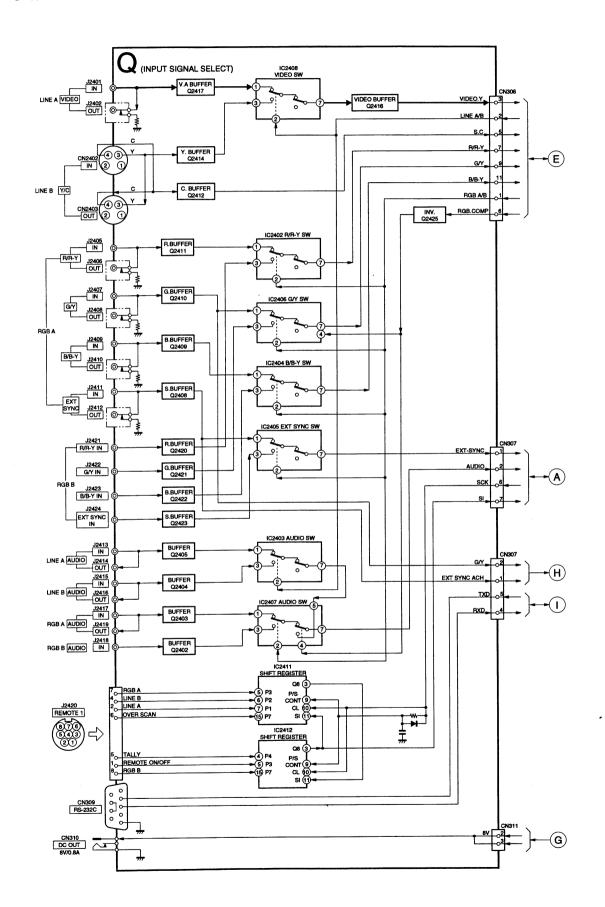
Checking that the output lines meet the standards below.

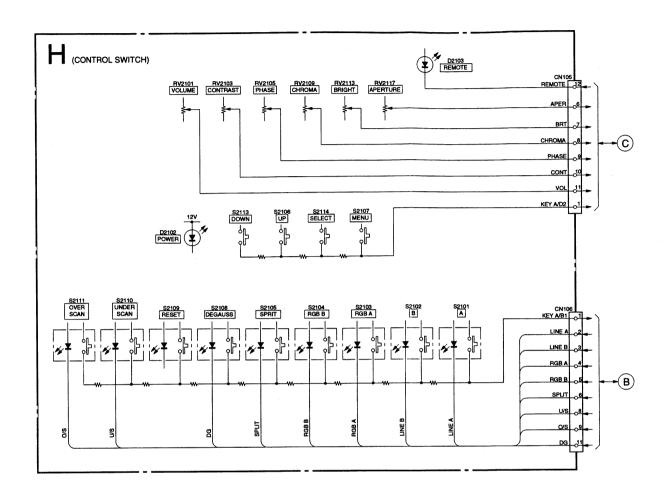
G Board 15V $14.7 \pm 0.7V$ 5V(A) $5.0 \pm 0.4V$ -15V $-15.9 \pm 1.0V$

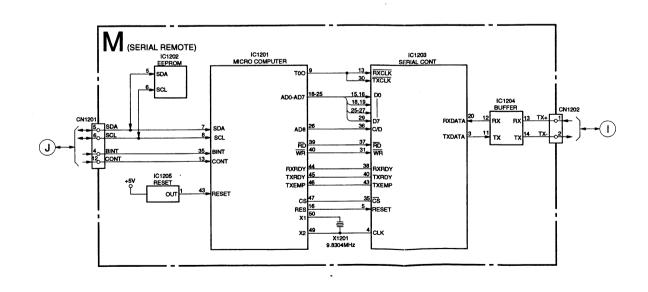
GA Board 8V 8.0 + 0.3 V

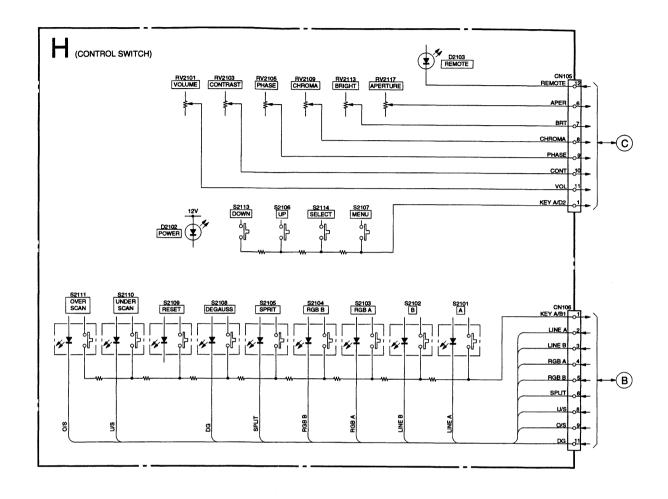
SECTION 6 DIAGRAMS

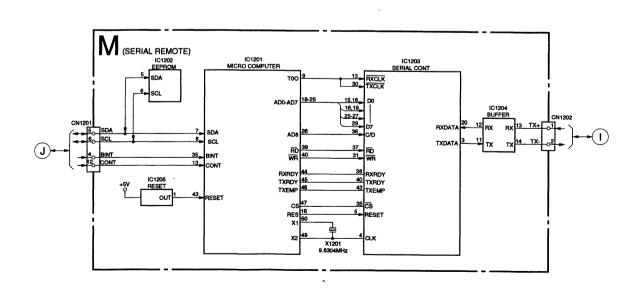
6-1. BLOCK DIAGRAMS

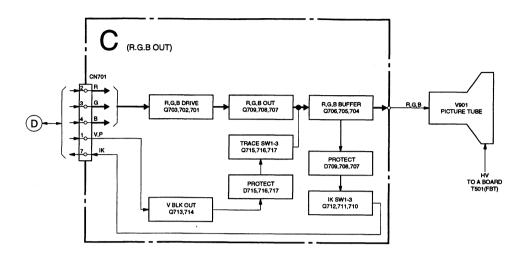


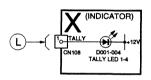




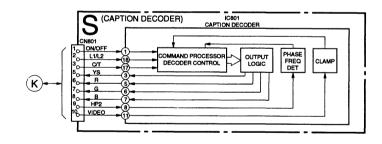


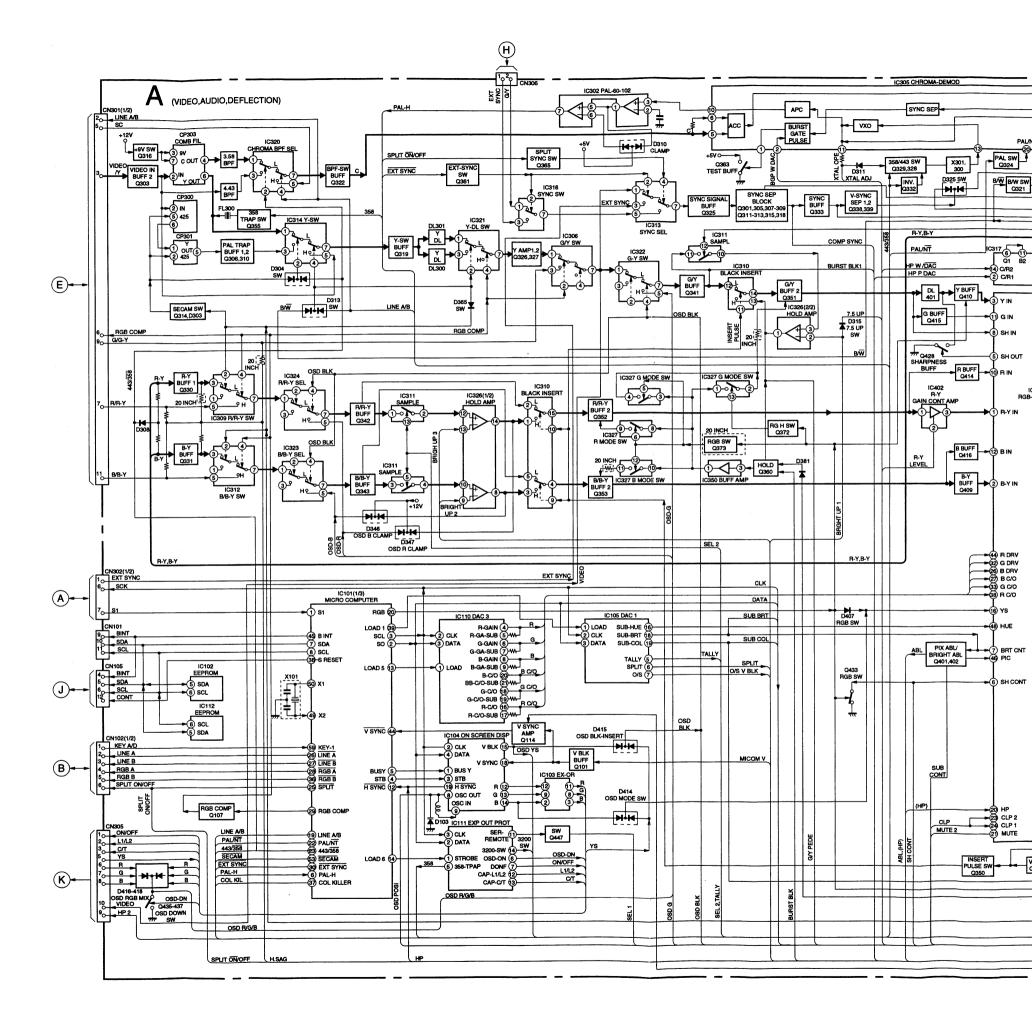


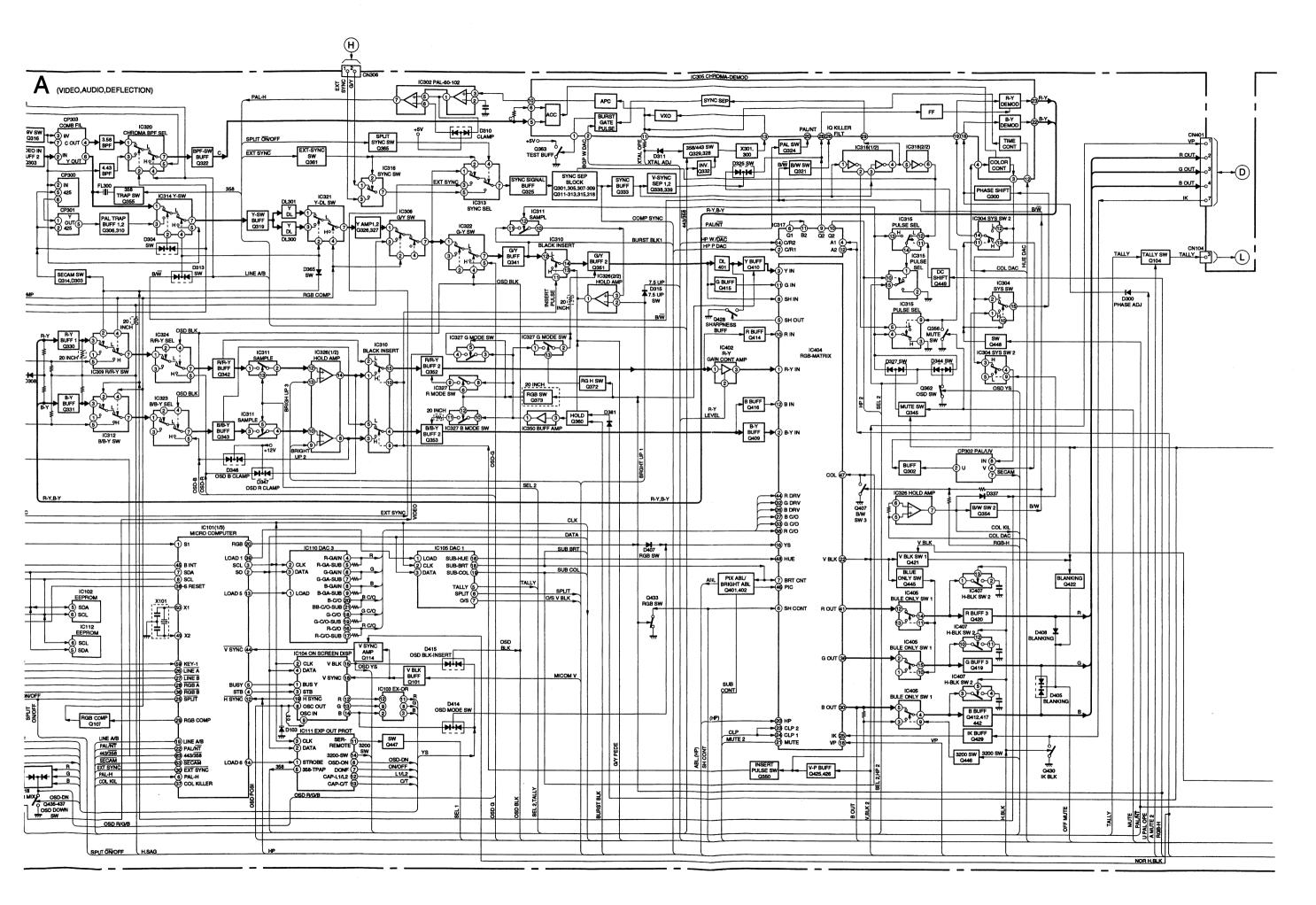


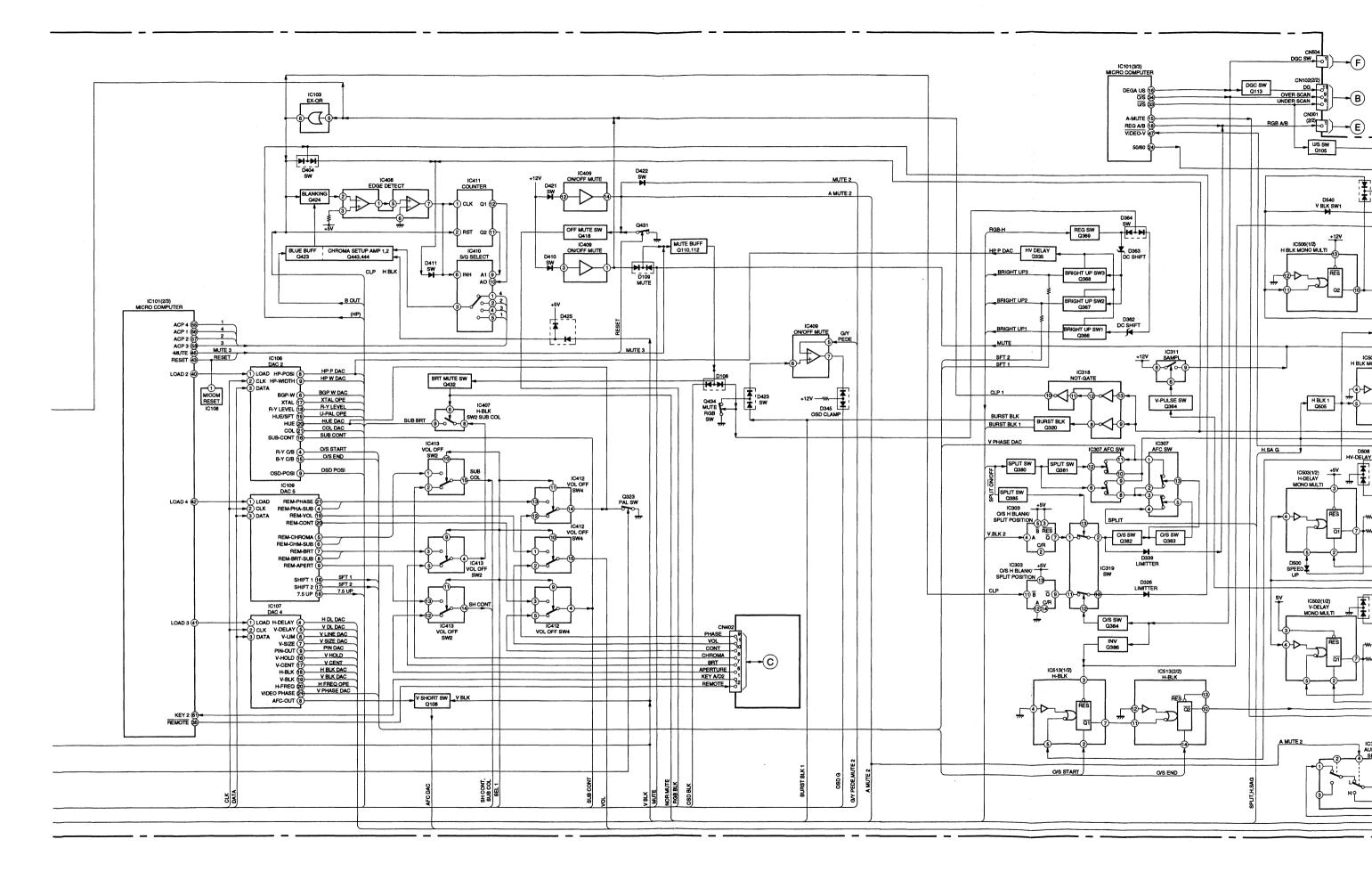


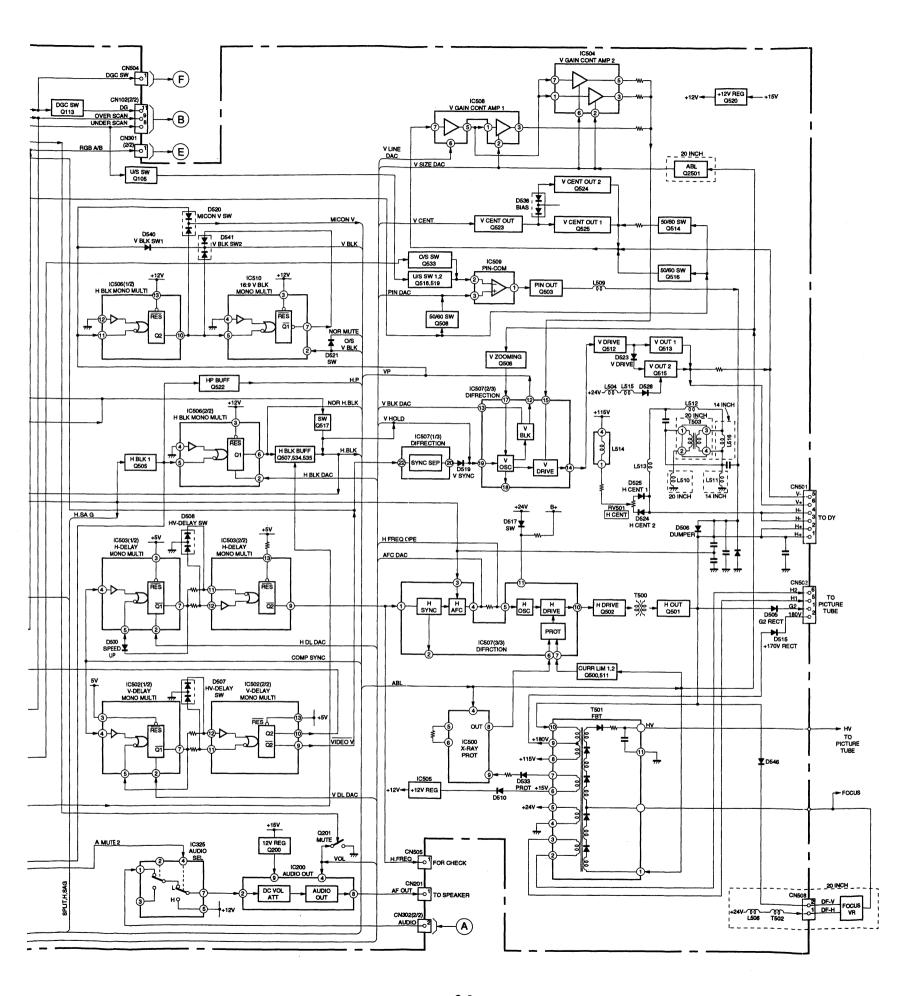
U/C MODEL ONLY

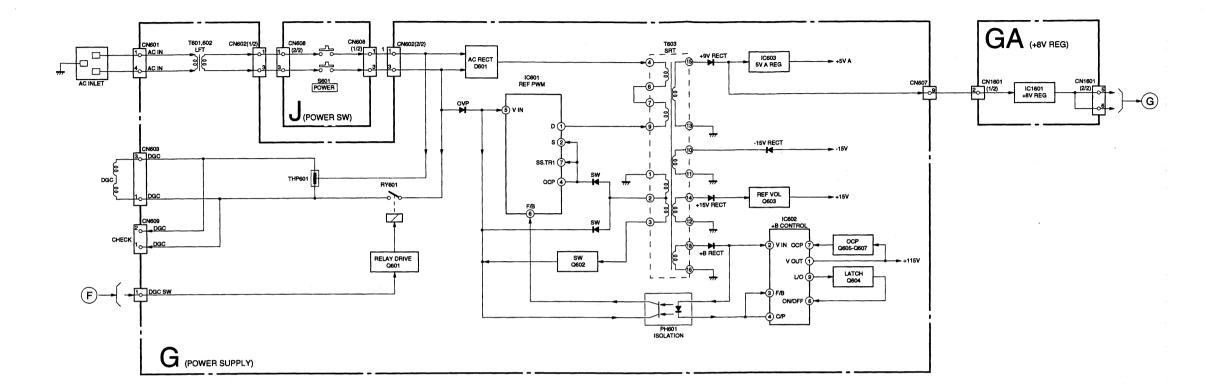




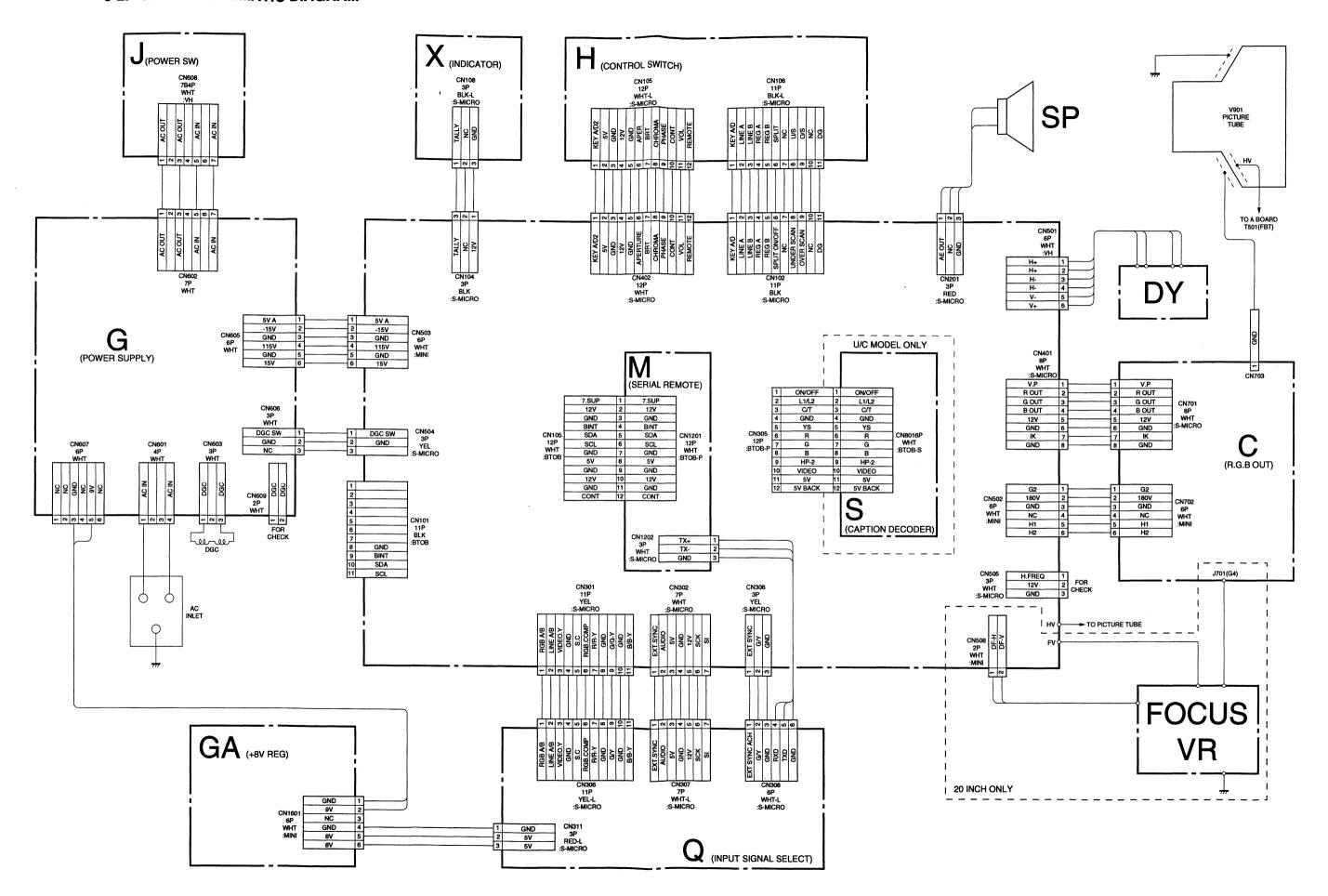




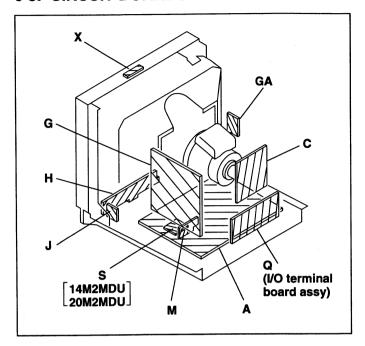




6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$
- · Capacitors without voltage indication are all 50V.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.

 $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$

• : nonflammable resistor.

• tusible resistor.

• \(\sigma \) : internal component.

• panel designation and adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # marked in these schematic diagrams signifies not mounted.
- The components identified by
 in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

 When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment untill the specified value is achieved.

(Refer to R1536 adjustment on Page 4-1)

• When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (☑)	Adjustment (►)
C512, C513, C523, C549, C592, D501, D533, IC500, IC507, Q500, Q511, R506, R508, R515, R516, R517, R518, R519, R551, R1536, R1537, R1560 (A BOARD)	R1536 (HOLD-DOWN)

- Voltage value is the reference value between it and the earth, when color bar signal is received from color bar generator (digital multimeter used: 10M ohms/V DC).
- Unit of voltage values is V (volt).
- No mark: with PAL color-bar signal sreceived or common voltage.
- For the respective voltage ratings in NTSC 3.58, NTSC 4.43, S-VIDEO, and ANALOG RGB modes, see the table.

• <u>V</u> : B + line, B – line.

(Actual measured value may be different).

- Circled numbers are waveform references.
- \Longrightarrow : Signal Path.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFRAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE

: FUSE NONFLAMMABLE FUSIBLE
: RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

: RW NONFLAMMABLE WIREWOUND

: * ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR: TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Note: The component identified by shading and mark

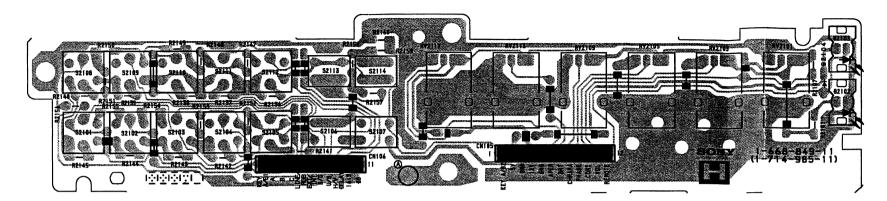
\(\frac{\Lambda}{\text{ are critical for safety. Replace only with part number specified.} \)

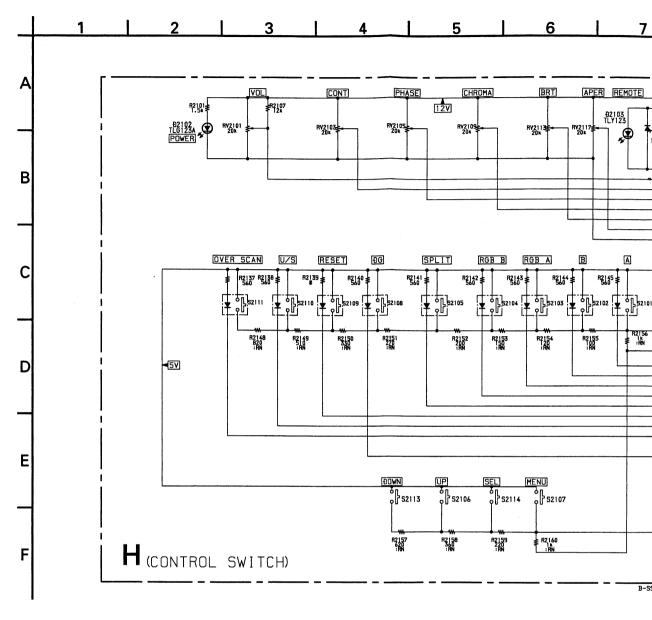
Note: Les composants identifies par une trame et une marque $\hat{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

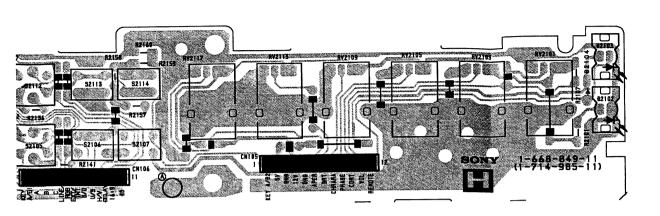
SONY-SP584 / Druck 9 6-15

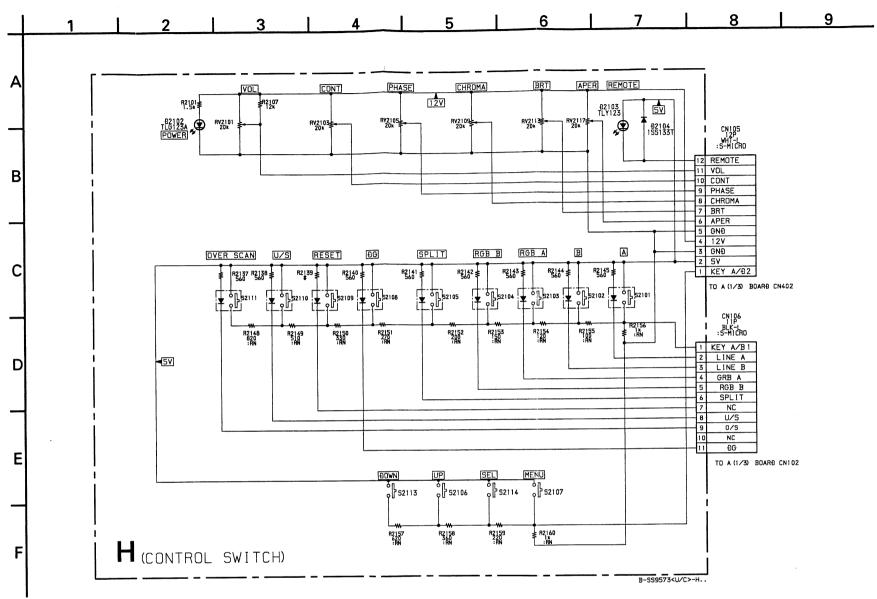


- H BOARD -







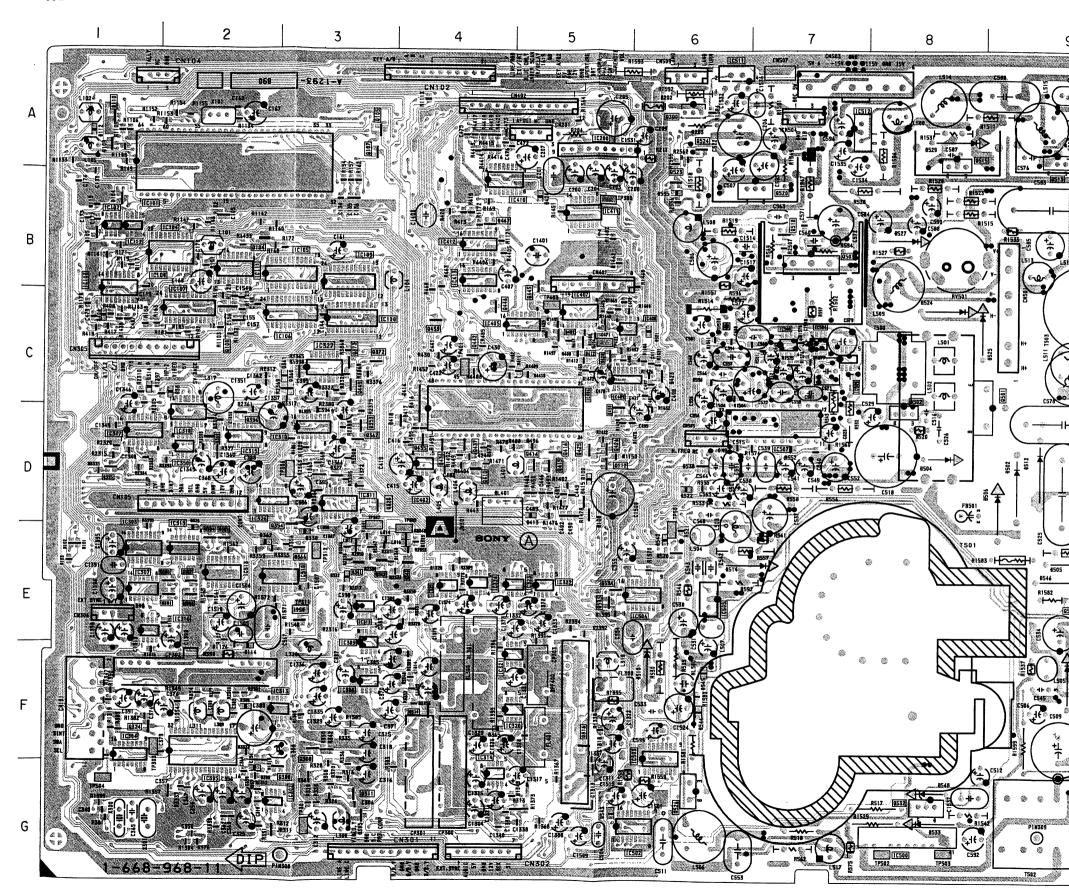


Schematic diagram

- A BOARD - <A Side>

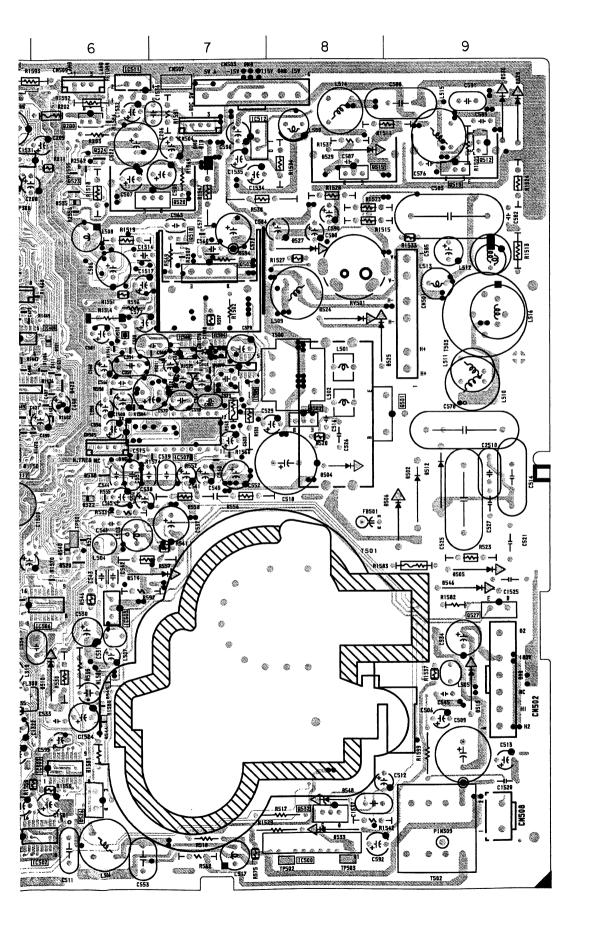
A BOARD (A SIDE)

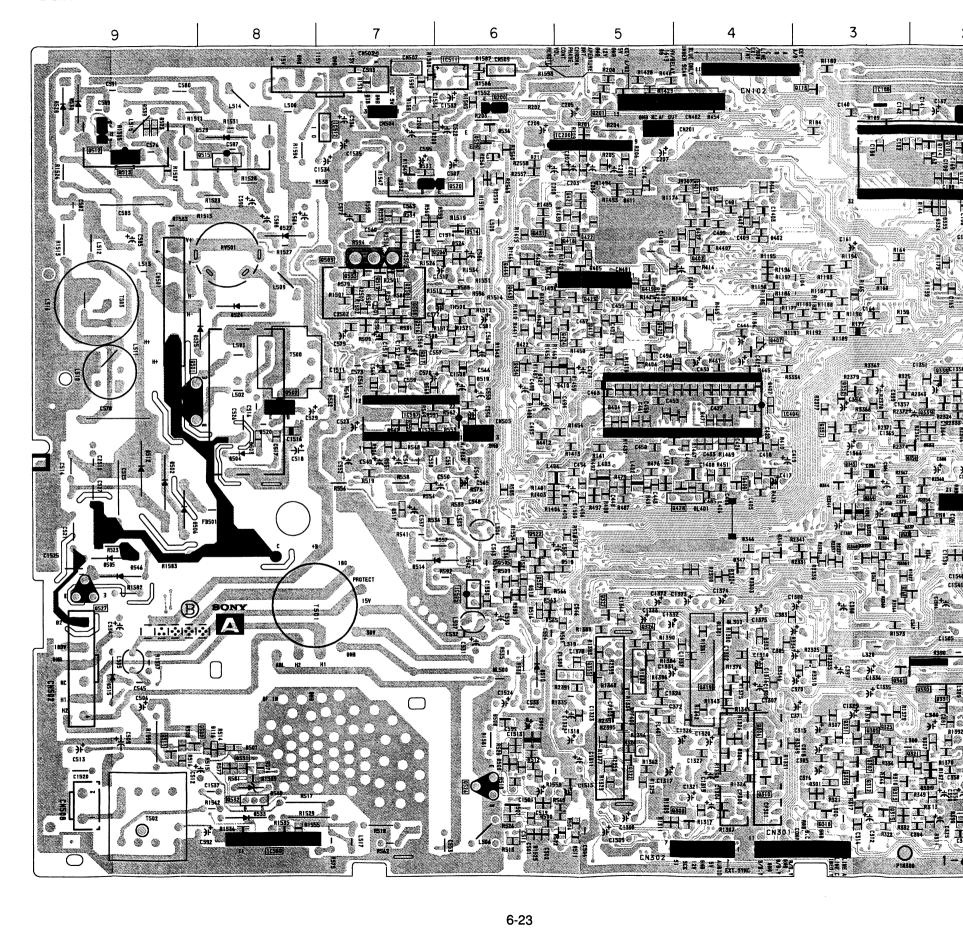
C101	IC	TRANSISTOR	Q524 A-6 Q534 E-5 Q535 E-5
IC105 B-3 C110 A-1 D100 D-5 C106 C-3 C1112 D-6 D104 B-1 D105 B-1 D104 B-1 D105 B-1 D106 B-1 D108 D-5 D109 A-1 D109 D10	IC102 B-1 IC103 C-1	Q105 A-3 Q107 A-3	
4020 20	IC105	Q110 A-1 Q112 D-6 Q200 A-6 Q300 G-3 Q308 F-3 Q311 G-3 Q314 F-4 Q316 F-5 Q320 D-3 Q324 F-1 Q335 D-1 Q341 E-3 Q341 E-3 Q342 E-3 Q353 D-3 Q354 E-3 Q356 D-2 Q360 D-2 Q362 D-3 Q362 D-3 Q362 D-3 Q373 C-3 Q373 C-3 Q373 C-3 Q381 E-2 Q381 E-2 Q382 E-2 Q383 E-2 Q384 E-2 Q385 E-2 Q385 E-2 Q410 D-4 Q412 C-5 Q414 D-5 Q415 D-5 Q416 D-5 Q415 D-5 Q416 D-5 Q416 D-5 Q416 D-5 Q417 D-5 Q416 D-5 Q418 D-5 Q419 C-5 Q410 D-4 Q412 C-5 Q410 D-4 Q412 C-5 Q410 D-5 Q415 D-5 Q416 D-5 Q416 D-5 Q416 D-5 Q416 D-5 Q416 D-5 Q417 D-4 Q417 D-4 Q418 D-5 Q418 D-5 Q419 C-5 Q429 C-5 Q430 D-5 Q429 C-5 Q430 D-5 Q426 D-5 Q427 D-4 Q447 D-4 Q449 C-3 Q437 D-4 Q448 C-4 Q447 B-4 Q449 C-3 Q501 C-9 Q502 D-8 Q503 B-7 Q511 A-9 Q511 A-9 Q515 A-8 Q518 B-7 Q518 B-7 Q518 B-7	D104 B-1 D105 B-1 D108 D-5 D109 A-1 D114 F-2 D300 G-2 D301 D-2 D305 G-3 D308 F-2 D313 G-5 D314 C-1 D326 E-2 D327 D-3 D332 E-3 D338 E-3 D360 C-3 D361 C-3 D361 C-3 D362 E-2 D365 F-4 D381 C-2 D406 C-1 D414 C-4 D415 D-5 D416 D-4 D417 D-4 D418 D-4 D417 D-4 D418 D-4 D417 D-4 D418 D-4 D417 D-9 D504 D-8 D502 D-9 D504 D-8 D505 E-9 D506 D-9 D506 D-9 D510 F-6 D512 D-9 D510 F-6 D512 D-9 D514 E-7 D515 F-9 D520 E-6 D521 C-6 D521 C-6 D522 D-6 D521 C-6 D522 D-6 D521 C-6 D522 D-6 D524 C-8 D525 C-9 D527 B-8 D528 A-9 D528 A-9 D529 A-8 D529 A-8 D530 A-9 D533 G-8 D535 B-6 D538 D-6 D541 E-3 D543 G-5 VARIABLE RESISTOR



6-21

<B Side>





6-22



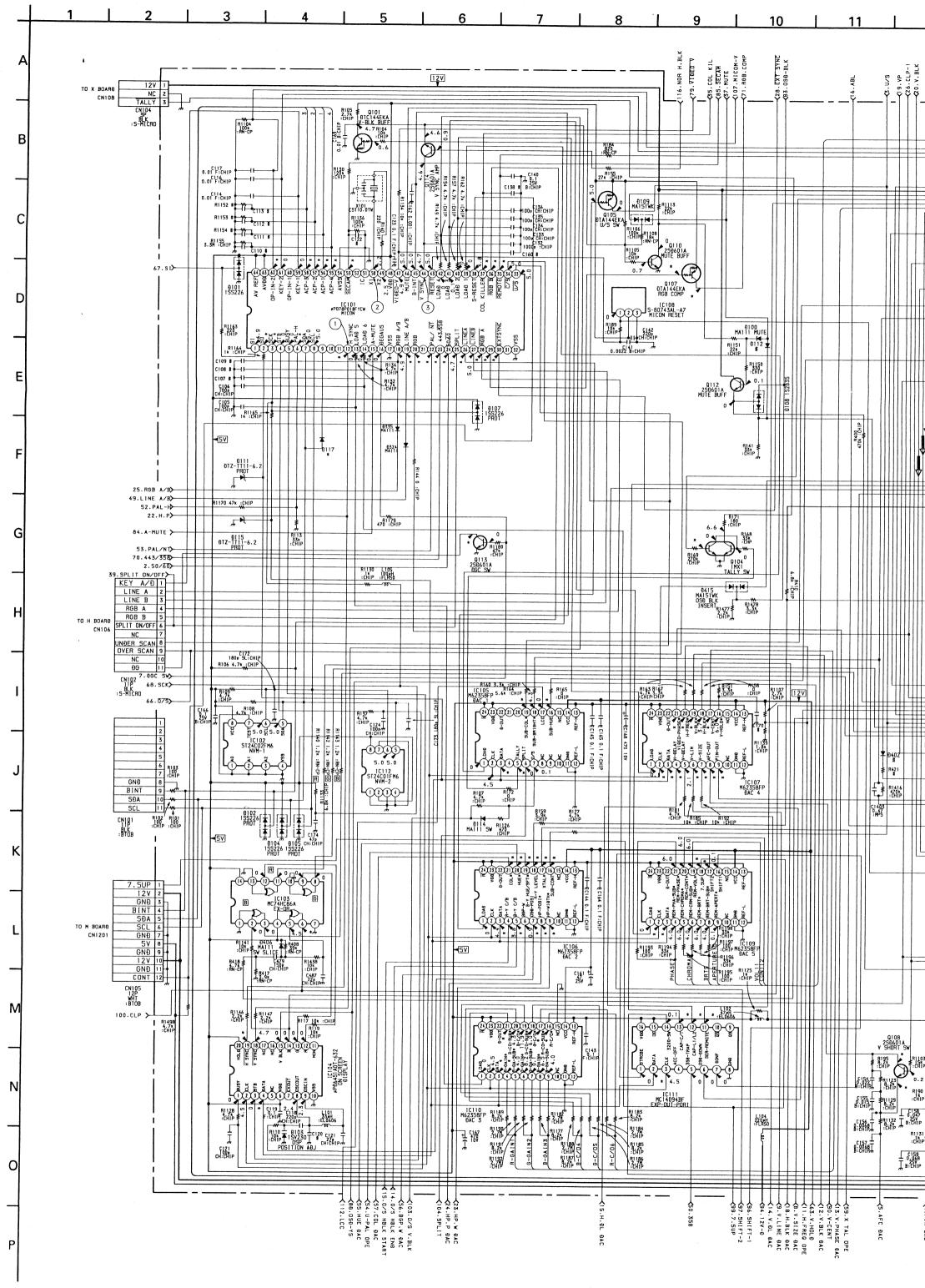
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

0 BONY 1-668-968-11

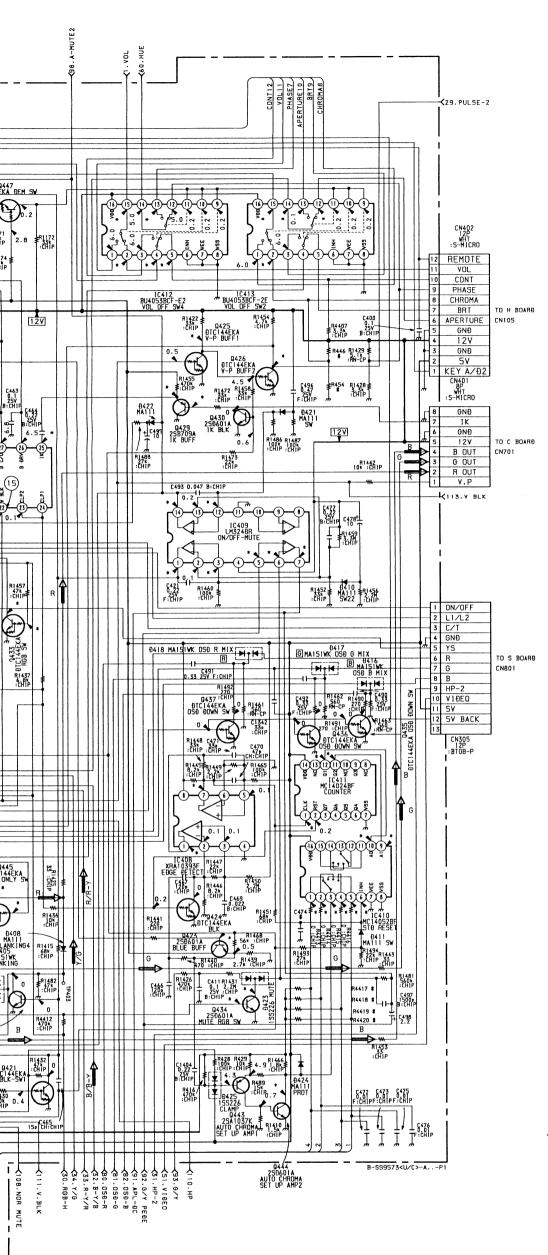
A BOARD (B SIDE)

				·	
IC		Q407 Q409 Q417	C-4 D-4 C-5	D324 D325 D333	B-2 C-3 D-2
IC101 IC108 IC200 IC404 IC500 IC505 IC507	A-2 A-3 A-5 D-4 G-8 E-6 D-7	Q417 Q418 Q419 Q420 Q421 Q422 Q423 Q424	D-5 B-5 C-5 C-5 B-5 C-5 C-5	D335 D337 D339 D344 D345 D346 D347	D-2 B-2 E-2 E-1 D-3 E-4 E-4
TRANSIS		Q428 Q431	D-4 B-6 C-6	D347 D363 D364 D401	E-4 E-3 E-2 B-4
Q113 Q114 Q200 Q201 Q301 Q302 Q303 Q305 Q306 Q307 Q309 Q310 Q312 Q313 Q315 Q318 Q319 Q321 Q322 Q323	2 3 2 6 5 3 1 4 3 4 3 3 4 3 3 3 4 2 5 1 3 5 5 6 4 4 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6	Q434 Q443 Q444 Q448 Q500 Q501 Q502 Q503 Q505 Q506 Q507 Q508 Q511 Q512 Q513 Q514 Q515 Q516 Q517 Q519 Q520 Q522 Q523 Q533 Q2501	C-6619987666799968777766677	D404 D405 D407 D410 D411 D421 D422 D425 D427 D500 D501 D502 D503 D504 D505 D506 D507 D508 D510 D512 D513 D514 D515 D516	-5-5-4-5-5-6-6-6-4-6-8-9-8-8-9-9-6-6-6-9-6-7-9-6-6-6-6
Q329	G-1 G-2 F-2	DIO	DE	D517 D518 D519	D-7 E-5 C-6
Q332 Q333 Q338 Q339 Q345 Q350 Q351 Q352 Q355 Q361 Q363 Q364 Q365	F-2 G-1 D-2 D-2 D-3 D-3 D-3 D-3 F-3 D-3 E-2	D101 D102 D103 D107 D111 D115 D116 D200 D301 D303 D304 D307 D309 D310	B-1 B-2 B-1 B-1 B-1 B-2 B-3 F-4 F-2 G-3 F-4 F-3 F-3 F-3 F-3 F-3 F-3 F-3 F-3 F-3 F-3	D523 D524 D525 D526 D527 D528 D529 D530 D531 D532 D533 D534 D536 D539	A-9 C-8 C-9 B-8 A-9 A-9 B-7 B-7 B-7 A-9 B-7 A-9
Q368 Q369	E-3 E-3 E-2	D311 D315 D317	G-2 D-2 C-2	VARIA RESIS	
	D-1 B-4 B-4	D320 D322 D323	D-2 D-2 C-2	RV501	B-8

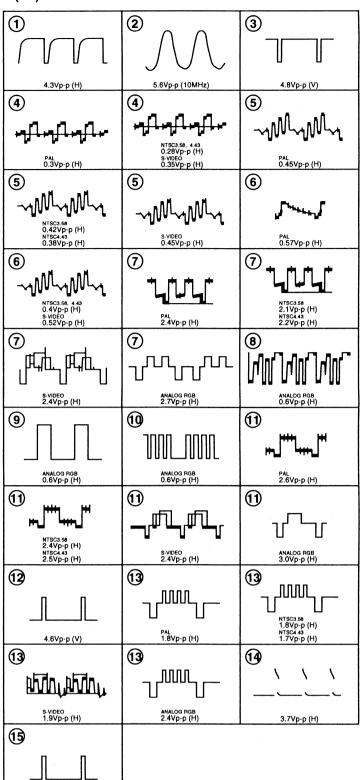




18 | 19 | 20 | 21 | 22 | 23



A (1/3) BOARD WAVEFORMS



A (1/3) BOARD * MARK LIST

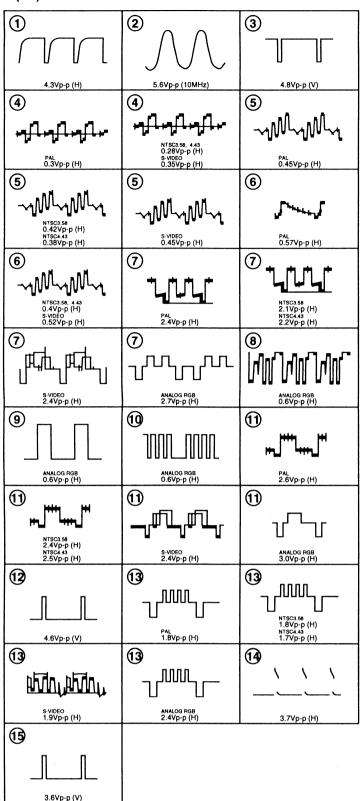
	20INCH MODEL	14INCH MODEL
C443	39p :CHIP	47p CH:CHIP
C446	12p CH:CHIP	6p :CHIP
C448	39p :CHIP	47p CH:CHIP
C454	39p :CHIP	47p CH:CHIP
C456	12p CH:CHIP	6p :CHIP
C1408	39p :CHIP	68p CH:CHIP
L402	82µH :CHIP	100µH :CHIP
L403	82µH :CHIP	100µH :CHIP
L404	82µH :CHIP	100µH :CHIP
L409	82µH :CHIP	68µH :CHIP
R405	1M :CHIP	#
R407	33k :CHIP	15k :CHIP
R413	1M :CHIP	5.1k :RN-CP
R414	0 :CHIP	8.2k :RN-CP
R419	#	4.7k :CHIP
R420	#	33k RN:CHIP
R463	3.9k :CHIP	4.7k :CHIP
R491	3.9k :CHIP	3.3k :CHIP
R498	3.9k :CHIP	3.3k :CHIP
R1407	3.9k :CHIP	3.3k :CHIP
R1470	3.3k :CHIP	2.2k :CHIP
R4405	6.8k :CHIP	5.6k :CHIP

A (1/3) BOARD * I

10:5: 5	PAL	NTSC 3.58
IC101 ②	2.3 4.5	2.2
<u> </u>	4.5	4.5
13	3.4	3.5
19	0	0
20	0 4.9	0
89	5.0	0
8	5.0	0
80 20	0.1 5.0	0.1 5.0
29	5.0	5.0
30	5.0	5.0
88	4.2	4.6
® ₩	0.3	4.6 0.1
8	4.2	4.3
89	4.0	3.6
9	0.5 3.0	2.6
89	3.6	2.9
€	4.0	4.0
IC103 (6)	0.2	0.2
IC104 ④	2.3 3.5	2.2 3.5
IC105 ③	2.3	2.2
<u> </u>	0	0.1
(l)	2.6 5.4	2.7 5.4
IC106 ③	2.3	2.2
⑤	5.4	5.4
⑦ ⑧	7.8	2.4 7.8
0	5.1	5.1
19	0.1	10.5
(f) (g)	3.1 2.4	2.6
(19)	6.3	11.9
89	3.6	4.8
න IC107	0.8 4.6	0.4
3	2.3	4.5 2.2
•	2.8	2.8
<u> </u>	1.5	1.4
⑦ ⑧	2.9	2.9
<u></u>	2.9	2.9
0	2.6	2.8
(19) (20)	3.2 4.5	5.4 5.0
<u> </u>	6.3	6.1
IC109 ②	4.6	4.5
③ ⑦	2.3 11.9	2.2 11.9
(9)	11.9	0.1
IC110 ③	2.3	2.2
④ 18	7.2 5.8	7.2 5.8
<u></u>	11.9	11.9
2 0	0	7.9
8	3.7	3.5
IC111 ②	2.3 0.3	0.3
0	0.2	0.3
10	0	5.0
(3) IC402 (2)	5.0 3.1	5.0 2.9
3	0	2.3
①	2.9	2.9
IC404 (6)	3.0	3.0
⑦ ⑩	4.9 5.6	4.9 5.6
13	5.6	5.6
19	0	0
8	3.8	4.0
20 30	7.1	8.0 1.2
99	7.0	8.1
39	1.4	1.2
38 39	7.8 6.9	7.7
<u> </u>	1.2	1.0
<u> </u>	7.2	7.2
•	7.2	7.2
€ IC405 ①	6.6 1.6	6.6 1.1
2	1.4	0.9
3	1.2	0.9
<u>•</u>	1.4	1.0
(0)	0.5	0.6
(19)		-

0.5

A (1/3) BOARD WAVEFORMS



A (1/3) BOARD * MARK LIST

	20INCH MODEL	14INCH MODEL
C443	39p :CHIP	47p CH:CHIP
C446	12p CH:CHIP	6p :CHIP
C448	39p :CHIP	47p CH:CHIP
C454	39p :CHIP	47p CH:CHIP
C456	12p CH:CHIP	6p :CHIP
C1408	39p :CHIP	68p CH:CHIP
L402	82µH :CHIP	100µH :CHIP
L403	82µH :CHIP	100µH :CHIP
L404	82µH :CHIP	100µH :CHIP
L409	82µH :CHIP	68µH :CHIP
R405	1M :CHIP	#
R407	33k :CHIP	15k :CHIP
R413	1M :CHIP	5.1k :RN-CP
R414	0 :CHIP	8.2k :RN-CP
R419	#	4.7k :CHIP
R420	#	33k RN:CHIP
R463	3.9k :CHIP	4.7k :CHIP
R491	3.9k :CHIP	3.3k :CHIP
R498	3.9k :CHIP	3.3k :CHIP
R1407	3.9k :CHIP	3.3k :CHIP
R1470	3.3k :CHIP	2.2k :CHIP
R4405	6.8k :CHIP	5.6k :CHIP

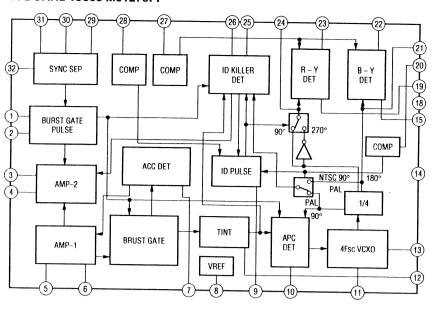
A (1/3) BOARD * MARK VOLTAGE

PAL NTSC NTSC ROBE R	A (1/0)		1			
		PAL	NTSC	NTSC	S-VIDEO	ANALOG
3	IC101 ②	2.3				
■						
3.4 3.5 3.5 3.1 3.5 3.6 0						
● 0 0 0 0 0 0 0 0 0						
● 4.9 0 0 0 0 0 0 0 0 0	19	0	0	0	4.8	0
● 5.0 0 0 5.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
★						
● 0.1 0.1 0.1 4.9 0.1 ● 5.0 5.0 5.0 5.0 0 5.0 0 5.0 ● 5.0 5.0 5.0 5.0 0 5.0 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 5.0 5.0 5.0 3.6 3.7 ● 0.3 0.1 0.7 0.1 0.1 ● 4.2 4.3 4.2 4.2 4.3 ● 0.3 0.1 0.7 0.1 0.1 ● 4.2 4.3 4.2 4.2 4.3 ● 0.5 1.0 0.8 3.1 1.9 ● 3.3 0.2 6 2.3 3.8 2.2 ● 3.6 2.9 3.2 3.9 4.0 ● 0.5 1.0 0.8 3.1 1.9 ● 3.5 3.5 3.5 3.5 3.1 3.5 IC103 0 0.2 0.2 0.2 0.0 0 IC104 0 2.3 2.2 2.2 2.0 2.3 ● 0 0.1 0 11.8 0 ● 2.6 2.7 2.6 2.8 2.6 ● 5.4 5.4 5.4 6.6 8.1 IC106 0 2.3 2.2 2.2 2.1 2.3 ● 5.4 5.4 5.4 6.6 8.1 IC106 0 2.3 2.2 2.2 2.1 2.3 ● 5.4 5.4 5.4 5.4 4.1 5.4 □ 2.4 2.4 2.4 0.6 2.4 ● 7.8 7.8 7.7 5.5 7.8 ● 6.3 11.9 9.0 10.7 3.7 ● 6.3 11.9 9.0 10.7 3.7 ● 6.3 11.9 9.0 10.7 3.7 ● 6.3 11.9 9.0 10.7 3.7 ● 6.3 11.9 9.0 10.7 3.7 ● 6.3 11.9 9.0 10.7 3.7 ● 6.3 11.9 9.0 10.7 3.7 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 4.5 4.4 4.5 ● 2.8 2.8 2.8 2.8 3.3 2.8 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 4.5 4.4 4.5 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 4.5 4.4 4.5 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 4.5 4.4 4.5 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 4.5 4.5 4.4 4.5 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 5.5 5.0 ● 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 5.4 5.4 5.4 4.4 ■ 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 5.5 5.0 ■ 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 5.5 5.0 ■ 0.8 0.4 0.3 2.4 3.1 IC107 0 4.6 4.5 5.5 5.0 ■ 0.8 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.3 0.3 0.3 0.3 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.3 0.3 ■ 0.8 0.4 0.4 0.3 0.3 0.3 0.3 0.3 ■ 0.8 0.4 0.4 0.3 0.3 0.3 0.3 0.3 ■ 0.8 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 ■ 0.8 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0 ■ 0.8 0.4 0.4 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.4 ■ 0.8 0.4 0.4 0.3 0.3 0.2 ■ 0 0 0						
● 5.0 5.0 5.0 4.9 0.1 ● 5.0 5.0 5.0 4.9 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 4.0 4.6 5.0 3.9 3.9 ● 0.3 0.1 0.7 0.1 0.1 ● 0.5 1.0 0.8 3.1 1.9 ● 3.0 2.6 2.3 3.8 2.2 ● 3.0 2.6 2.3 3.8 2.2 ● 3.0 2.6 2.3 3.8 2.2 ● 3.0 2.2 0.2 0.2 0.0 IC103 0.2 0.2 0.2 0.0 IC104 0.2 3.5 3.5 3.1 3.5 IC105 2.3 2.2 2.2 0.2 0.2 9 2.6 2.7 2.6 2.8 2.6 9 5.4 5.4 5.4						
● 5.0 5.0 5.0 4.9 0.1 ● 5.0 5.0 5.0 5.0 0.1 ● 4.2 4.6 5.0 3.9 3.9 ● 4.0 4.6 5.0 3.6 3.7 ● 0.3 0.1 0.7 0.1 0.1 ● 4.2 4.3 4.2 4.2 4.3 ● 4.0 3.6 3.7 3.9 4.0 ● 0.5 1.0 0.8 3.1 1.9 ● 3.0 2.6 2.3 3.8 2.2 ● 3.6 2.9 3.2 3.9 4.0 ● 1.0 0.8 3.1 1.9 ● 3.0 2.6 2.3 3.8 2.2 ● 3.6 2.9 3.2 3.9 4.0 ■ 1.0 1.0 0.8 3.1 1.9 ■ 3.0 2.6 2.3 3.8 2.2 ■ 3.6 2.9 3.2 3.9 4.0 ■ 1.0 1.0 0.1 0.1 1.8 0 ■ 1.0 0.2 0.2 0.2 0.0 0 ■ 1.0 0.1 0.1 1.8 0 ■ 2.0 2.2 2.2 2.0 2.3 ■ 0 0.1 0 11.8 0 ■ 2.6 2.7 2.6 2.8 2.6 0 ■ 3.5 3.5 3.5 3.1 3.5 ■ 1.0 0.2 0.2 2.2 2.2 2.2 2.2 2.3 ■ 0 0.1 0 11.8 0 ■ 2.6 2.7 2.6 2.8 2.6 0 ■ 5.4 5.4 5.4 6.6 8.1 ■ 1.0 1.0 0 11.8 0 ■ 2.4 2.4 2.4 2.4 0.6 2.4 0 ■ 7.8 7.8 7.7 5.5 7.8 ■ 0.5 1.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 5.1 5.1 4.0 5.1 0 ■ 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1						
★ 5.0 5.0 5.0 5.0 0.1 ★ 4.2 4.6 5.0 3.9 3.9 ★ 4.0 4.6 5.0 3.6 3.7 ♠ 1.0 4.0 4.6 5.0 3.6 3.7 ♠ 1.0 3.0 1.0 7.7 0.1 0.1 ♠ 3.0 2.6 2.3 3.8 2.2 ♠ 3.0 2.6 2.3 3.8 2.2 ♠ 3.0 2.6 2.3 3.8 2.2 ♠ 3.0 2.0 0.2 0.2 0.0 IC103 0.2 0.2 0.2 0.0 IC103 0.2 0.2 0.2 0.0 IC103 0.2 0.2 0.2 0.0 ⊕ 3.5 3.5 3.5 3.1 3.5 IC103 0.2 0.2 0.2 0.2 0.1 0.1 0.1 11.8 0.0 0.2 2.6 2.7 2.6 2.8 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
★ 4.2 4.6 5.0 3.9 3.9 ★ 4.0 4.6 5.0 3.6 3.7 ★ 9 0.3 0.1 0.7 0.1 0.1 ★ 4.2 4.3 4.2 4.2 4.3 ★ 0 0.5 1.0 0.8 3.1 1.9 ★ 3.6 2.9 3.2 3.9 4.0 ★ 0 4.0 4.0 4.0 2.9 4.0 ★ 0 4.0 4.0 4.0 2.9 4.0 ★ 0 0.2 0.2 0.2 0.0 0.0 ★ 1.0 0.2 0.2 0.2 0.0 0.0 ★ 1.0 0.2 0.2 0.2 0.2 0.0 0.0 ★ 1.0 0.2 0.2 0.2 0.2 0.2 0.3 3.1 3.5 3.1 3.5 3.1 3.5 3.1 3.5 3.1 3.5 3.1 3.5 3.1 3.5 3.1 3.5						
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IC110						
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(⊕) 5.8 5.8 5.8 6.2 5.8 (⊕) 11.9 11.9 11.9 7.8 11.9 (⊕) 0 7.9 7.9 7.8 7.9 (⊕) 3.7 3.5 3.5 3.5 3.6 (⊕) 3.7 3.5 3.5 3.5 3.6 (⊕) 0.3 0.3 0.3 0 0.3 (⊕) 0.2 0.1 0.1 0.1 0.1 0.1 (⊕) 0.2 0.1 0.1 0.1 0.1 0.1 (⊕) 0.0 5.0 5.0 0 5.0 5.0 (⊕) 0.5 5.0 5.0 0 5.0 5.0 (⊕) 5.0 5.0 5.0 0 5.0 5.0 (⊕) 5.0 5.0 5.0 0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0						
(i) 11.9 11.9 11.9 7.8 11.9 (i) 0 7.9 7.9 7.8 7.9 (ii) 0 7.9 7.9 7.8 7.9 (iii) 0 7.9 7.8 7.9 (ii) 0 3.5 3.5 3.5 3.6 (iii) 0 3.0 3.0 3.0 0.3 0.3 0.0 0.3 0.3 0.0 0.3 0.3 0.0 0.3 0.3 0.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 5.0 0.0 3.6 3.0 3.0 3.6 3.0 3.0 3.6 3.0 3.0 3.6 3.0 3.0 3.6						
② 0 7.9 7.9 7.8 7.9 ② 3.7 3.5 3.5 3.5 3.6 IC1111 ② 2.3 2.2 2.2 2.0 2.2 ④ 0.3 0.3 0.3 0 0.3 ④ 0.5 0.1 0.1 0.1 0.1 ④ 0.5 0.5 5.0 0 5.0 ⑤ 5.0 5.0 5.0 0 5.0 ⑥ 5.0 5.0 0 5.0 0 5.0 ⑥ 5.0 5.0 0 5.0 0 5.0 ⑥ 0 2.3 0 2.2 2.2 2.2 ⑦ 2.9 2.9 0 2.9						
IC111			7.9	7.9		
④ 0.3 0.3 0.3 0 0.3 ⑥ 0.2 0.1 0.1 0.1 0.1 0.1 ⑥ 0 5.0 5.0 5.0 5.0 5.0 5.0 ⑥ 5.0 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6						
① 0.2 0.1 0.1 0.1 0.1 ③ 0 5.0 5.0 5.0 5.0 5.0 ③ 5.0 5.0 5.0 0 5.0 ⑤ 5.0 5.0 5.0 5.0 5.0 ⑥ 5.0 5.0 5.0 5.0 5.0 5.0 ⑥ 0 2.9 3.0 3.0 3.0 3.0 3.0 2.2 2.2 2.2 ② 2.9 2.9 0 2.9 2.9 2.9 IC404 ⑥ 3.0 3.0 3.0 4.5 0 ④ 4.9 4.9 4.7 6.1 ⑩ 5.6 5.6 5.6 5.6 5.8 ⑩ 0 0 0 0 4.4 ⑩ 5.6 5.6 5.6 5.6 5.8 6.8 6.6 5.6 5.8 ⑩ 0 0 0 0						
(Φ) 0 5.0 5.0 0 5.0 (Φ) 5.0 5.0 5.0 0 5.0 (Φ) 2.9 3.0 3.0 3.6 0 2.2 2.2 2.2 (Φ) 2.9 2.9 0 2.9 2.9 2.9 (Φ) 3.0 3.0 3.0 3.6 0 2.9 2.9 (Φ) 4.9 4.9 4.9 4.5 0 0 0 2.9 2.9 0 (Φ) 5.6 5.6 5.6 5.6 5.6 5.8 5.8 6.9 5.8 6.5 5.6 5.8 6.8 6.5 5.6 5.8 6.9 7.8 7.7 7.9 7.9 7.9 7.9 7.9						
(1) 5.0 5.0 5.0 0 5.0 IC402 ② 3.1 2.9 3.0 3.0 3.6 ③ 0 2.3 0 2.2 2.2 ① 2.9 2.9 0 2.9 2.9 IC404 ④ 3.0 3.0 3.0 4.5 0 ① 4.9 4.9 4.7 6.1 ⑥ 5.6 5.6 5.6 5.6 5.8 ⑥ 5.6 5.6 5.6 5.6 5.8 ⑥ 0 0 0 0 4.4 ② 3.8 4.0 4.2 4.0 3.6 ③ 7.1 8.0 8.0 7.7 7.9 ④ 1.4 1.2 1.1 1.2 1.4 ② 7.0 8.1 7.8 7.8 7.8 7.8 ③ 7.8 7.7 7.8 8.0 7.7 ④ 7.8 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
IC402 ② 3.1 2.9 3.0 3.0 3.6 ③ 0 2.3 0 2.2 2.2 ⑦ 2.9 2.9 0 2.9 2.9 IC404 ④ 3.0 3.0 3.0 4.5 0 ① 4.9 4.9 4.9 4.7 6.1 ⑩ 5.6 5.6 5.6 5.6 5.8 ⑩ 0 0 0 0 4.4 ② 3.8 4.0 4.2 4.0 3.6 ③ 7.1 8.0 8.0 7.7 7.9 ③ 1.4 1.2 1.1 1.2 1.4 ④ 7.0 8.1 7.8 7.8 7.8 7.8 ﴿ 1.4 1.2 1.1 1.2 1.5 ④ 7.8 7.7 7.8 8.0 7.7 ④ 6.9 7.8 7.7 7.6 7.6 ④ </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
③ 0 2.3 0 2.2 2.2 ① 2.9 2.9 0 2.9 2.9 IC404 ⑥ 3.0 3.0 3.0 4.5 0 ① 4.9 4.9 4.9 4.9 4.7 6.1 ⑥ 5.6 5.6 5.6 5.6 5.6 5.8 ⑥ 0 0 0 0 0 4.4 ② 3.8 4.0 4.2 4.0 3.6 ② 7.1 8.0 8.0 7.7 7.9 ③ 1.4 1.2 1.1 1.2 1.4 ④ 7.0 8.1 7.8 7.8 7.8 7.8 ③ 1.4 1.2 1.1 1.2 1.5 ④ 7.8 7.7 7.8 8.0 7.7 ④ 6.9 7.8 7.7 7.8 8.0 7.7 ④ 6.9 7.8 7.7 7.8 8.0 7.7 ④ 6.9 7.8 7.7 7.6 7.6 ⑥ 1.2 1.0 1.0 1.0 1.2 1.3 ④ 7.2 7.2 7.2 8.3 7.2 ④ 7.2 7.2 7.2 6.9 7.0 ⑥ 6.6 6.6 6.6 6.6 5.5 0 IC405 ① 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 0.9 0 1.2 1.5 ④ 1.4 1.0 0 0 1.2 1.4 ⑥ 1.3 1.0 0.3 0.2 ④ 1.4 1.0 0 0 1.2 1.4						
IC404						
① 4.9 4.9 4.9 4.7 6.1 ⑩ 5.6 5.6 5.6 5.6 5.8 ⑩ 5.6 5.6 5.6 5.8 ⑩ 0 0 0 0 4.4 ⑩ 7.1 8.0 8.0 7.7 7.9 ⑩ 1.4 1.2 1.1 1.2 1.4 ⑩ 7.0 8.1 7.8 7.8 7.8 7.8 ⑩ 1.4 1.2 1.1 1.2 1.5 ⑩ 7.8 7.7 7.8 8.0 7.7 ⑩ 6.9 7.8 7.7 7.6 7.6 ⑩ 1.2 1.0 1.0 1.2 1.3 ⑩ 7.2 7.2 7.2 8.3 7.2 ⑩ 7.2 7.2 7.2 6.9 7.0 ⑩ 6.6 6.6 6.6 5.5 0 IC405 ① 1.6 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
(b) 5.6 5.6 5.6 5.8 (c) 5.6 5.6 5.6 5.8 (d) 0 0 0 0 4.4 (d) 3.8 4.0 4.2 4.0 3.6 3.6 3.8 4.0 4.2 4.0 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.7 7.9 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.7 7.9 3.8 7.7 7.9 3.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.7 7.8 8.0 7.7 7.8 8.0 7.7 7.6 7.6 7.6 9.6 9.7 9.0 1.2 1.3 7.2 4.2 3.2 4.2 4.2 4.0 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th></th<>						
(1) 5.6 5.6 5.6 5.8 (1) 0 0 0 0 4.4 (2) 3.8 4.0 4.2 4.0 3.6 (2) 7.1 8.0 8.0 7.7 7.9 (3) 1.4 1.2 1.1 1.2 1.4 (3) 1.4 1.2 1.1 1.2 1.5 (3) 7.8 7.7 7.8 8.0 7.7 (4) 1.2 1.0 1.0 1.2 1.3 (4) 7.2 7.8 7.7 7.6 7.6 (4) 1.2 1.0 1.0 1.2 1.3 (4) 7.2 7.2 7.2 7.2 8.3 7.2 (4) 7.2 7.2 7.2 7.2 8.3 7.2 (4) 7.2 7.2 7.2 8.3 7.2 (4) 6.6 6.6 6.6 5.5 0						
(⊕) 0 0 0 4.4 (⊕) 3.8 4.0 4.2 4.0 3.6 (⊕) 7.1 8.0 8.0 7.7 7.9 (⊕) 1.4 1.2 1.1 1.2 1.4 (⊕) 7.0 8.1 7.8 7.8 7.8 7.8 (⊕) 1.4 1.2 1.1 1.2 1.5 7.8 8.0 7.7 7.8 8.0 7.7 7.6 7.2 7.2 7.2 8.3 7.2 7.2 8.3 7.2 7.2 8.3 7.2 7.2 8.3 7.2 7.2 8.9 7.0 9.0 1.1 1						
★ 3.8 4.0 4.2 4.0 3.6 ★ 7.1 8.0 8.0 7.7 7.9 ★ 1.4 1.2 1.1 1.2 1.4 ★ 7.0 8.1 7.8 7.8 7.8 7.8 ★ 1.4 1.2 1.1 1.2 1.5 ★ 7.8 7.7 7.8 8.0 7.7 ★ 6.9 7.8 7.7 7.6 7.6 ♠ 1.2 1.0 1.0 1.2 1.3 ♠ 7.2 7.2 7.2 7.2 8.3 7.2 ♠ 7.2 7.2 7.2 7.2 6.9 7.0 ♠ 6.6 6.6 6.5 5.5 0 IC405 ① 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ④ 1.4 1.0 0 1.2 1.4 ④ 1.3 1.0 0 1.2 1.4 ④ 1.3 1.0 0 1.2 1.4 ④ 0.5 0.6 1.0 0.3 0.2 ① 0.5						
★ 7.1 8.0 8.0 7.7 7.9 ★ 1.4 1.2 1.1 1.2 1.4 ★ 7.0 8.1 7.8 7.8 7.8 ★ 1.4 1.2 1.1 1.2 1.5 ★ 7.8 7.7 7.6 7.6 ★ 1.2 1.0 1.0 1.2 1.3 ★ 7.2 7.2 7.2 8.3 7.2 ★ 7.2 7.2 7.2 6.9 7.0 ★ 7.2 7.2 7.2 6.9 7.0 ★ 7.2 7.2 7.2 6.9 7.0 ★ 7.2 7.2 7.2 6.9 7.0 ★ 1.6 6.6 6.6 5.5 0 IC405 ★ 1.6 1.1 1.3 1.4 1.6 ★ 1.2 0.9 0 1.1 1.2 ★ 1.2 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th></td<>						
★ 1.4 1.2 1.1 1.2 1.4 ★ 7.0 8.1 7.8 7.8 7.8 ★ 1.4 1.2 1.1 1.2 1.5 ★ 7.8 7.7 7.8 8.0 7.7 ★ 6.9 7.8 7.7 7.6 7.6 ★ 7.2 7.2 7.2 8.3 7.2 ★ 7.2 7.2 7.2 6.9 7.0 ★ 6.6 6.6 6.6 5.5 0 IC405 ★ 1.6 1.1 1.3 1.4 1.6 ♠ 1.4 0.9 0 1.2 1.5 ♠ 1.2 0.9 0 1.1 1.2 ♠ 1.3 1.0 0 1.2 1.4 ♠ 0.5 0.6 1.0 0.3 0.2 ♠ 0.5 0.6 1.3 0.3 0.2						
№ 7.0 8.1 7.8 7.8 7.8 № 1.4 1.2 1.1 1.2 1.5 № 7.8 7.7 7.8 8.0 7.7 № 6.9 7.8 7.7 7.6 7.6 № 1.2 1.0 1.0 1.2 1.3 № 7.2 7.2 7.2 8.3 7.2 № 7.2 7.2 7.2 6.9 7.0 № 6.6 6.6 6.6 5.5 0 IC405 ① 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ④ 1.2 0.9 0 1.1 1.2 ④ 1.4 1.0 0 1.2 1.4 ⑥ 1.3 1.0 0 1.2 1.4 ⑥ 0.5 0.6 1.0 0.3 0.2 ① 0.5 0.6 1.3 0.3 0.2						
★ 7.8 7.7 7.8 8.0 7.7 ★ 6.9 7.8 7.7 7.6 7.6 ★ 1.2 1.0 1.0 1.2 1.3 ★ 7.2 7.2 7.2 8.3 7.2 ★ 7.2 7.2 7.2 6.9 7.0 ★ 6.6 6.6 6.6 5.5 0 IC405 ★ 1.6 1.1 1.3 1.4 1.6 ★ 1.4 0.9 0 1.2 1.5 ★ 1.2 0.9 0 1.1 1.2 ★ 1.4 1.0 0 1.2 1.4 ★ 1.3 1.0 0 1.2 1.4 ★ 0.5 0.6 1.0 0.3 0.2 ★ 0.5 0.6 1.3 0.3 0.2						7.8
★● 6.9 7.8 7.7 7.6 7.6 ★● 1.2 1.0 1.0 1.2 1.3 ★● 7.2 7.2 7.2 8.3 7.2 ★● 7.2 7.2 7.2 6.9 7.0 ◆● 6.6 6.6 6.6 5.5 0 IC405 ◆ 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ③ 1.2 0.9 0 1.1 1.2 ◆ 1.4 1.0 0 1.2 1.4 ◆ 1.3 1.0 0 1.2 1.4 ◆ 0.5 0.6 1.0 0.3 0.2 ◆ 0.5 0.6 1.3 0.3 0.2						
⊕ 1.2 1.0 1.0 1.2 1.3 ⊕ 7.2 7.2 7.2 8.3 7.2 ⊕ 7.2 7.2 7.2 6.9 7.0 ⊕ 6.6 6.6 6.6 5.5 0 IC405 ⊕ 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ③ 1.2 0.9 0 1.1 1.2 ⊕ 1.4 1.0 0 1.2 1.4 ⑤ 1.3 1.0 0 1.2 1.4 ⑥ 0.5 0.6 1.0 0.3 0.2 ⑩ 0.5 0.6 1.3 0.3 0.2						
⊕ 7.2 7.2 7.2 7.2 8.3 7.2 ⊕ 7.2 7.2 7.2 6.9 7.0 ⊕ 6.6 6.6 6.6 5.5 0 IC405 ① 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ③ 1.2 0.9 0 1.1 1.2 ④ 1.4 1.0 0 1.2 1.4 ⑤ 1.3 1.0 0 1.2 1.4 ⑩ 0.5 0.6 1.0 0.3 0.2 ⑪ 0.5 0.6 1.3 0.3 0.2						
⊕ 7.2 7.2 7.2 6.9 7.0 ⊕ 6.6 6.6 6.6 5.5 0 IC405 ⊕ 1.6 1.1 1.3 1.4 1.6 ④ 1.4 0.9 0 1.2 1.5 ④ 1.2 0.9 0 1.1 1.2 ④ 1.4 1.0 0 1.2 1.4 ⑤ 1.3 1.0 0 1.2 1.4 ⑥ 0.5 0.6 1.0 0.3 0.2 ⑩ 0.5 0.6 1.3 0.3 0.2						
(f) 6.6 6.6 6.6 5.5 0 IC405 (f) 1.6 1.1 1.3 1.4 1.6 (g) 1.4 0.9 0 1.2 1.5 (g) 1.2 0.9 0 1.1 1.2 (g) 1.4 1.0 0 1.2 1.4 (g) 1.3 1.0 0 1.2 1.4 (g) 0.5 0.6 1.0 0.3 0.2 (g) 0.5 0.6 1.3 0.3 0.2						
IC405 ① 1.6 1.1 1.3 1.4 1.6 ② 1.4 0.9 0 1.2 1.5 ③ 1.2 0.9 0 1.1 1.2 ④ 1.4 1.0 0 1.2 1.4 ⑤ 1.3 1.0 0 1.2 1.4 ⑥ 0.5 0.6 1.0 0.3 0.2 ① 0.5 0.6 1.3 0.3 0.2						
(a) 1.4 0.9 0 1.2 1.5 (b) 1.2 0.9 0 1.1 1.2 (c) 1.4 1.0 0 1.2 1.4 (d) 1.3 1.0 0 1.2 1.4 (d) 0.5 0.6 1.0 0.3 0.2 (d) 0.5 0.6 1.3 0.3 0.2						
(a) 1.2 0.9 0 1.1 1.2 (b) 1.4 1.0 0 1.2 1.4 (c) 1.3 1.0 0 1.2 1.4 (d) 0.5 0.6 1.0 0.3 0.2 (d) 0.5 0.6 1.3 0.3 0.2						
(a) 1.3 1.0 0 1.2 1.4 (b) 0.5 0.6 1.0 0.3 0.2 (c) 0.5 0.6 1.3 0.3 0.2					1.1	1.2
(1) 0.5 0.6 1.0 0.3 0.2 (1) 0.5 0.6 1.3 0.3 0.2						
(i) 0.5 0.6 1.3 0.3 0.2						
1.2 0.0 1.1 1.2 1.3						
		1.2	0.8	1.1	1.2	1.3

	PAL	NTSC	NTSC	S-VIDEO	ANALOG
IC405 (3)	1.4	3.58 0.9	1.3	1.3	RGB 1.4
0	1.2	0.8	1.2	1.2	1.3
1C407 ①	1.4	0.9	1.3	1.2	1.5
2	0.4	0.5	0.3	0.4	0.5
3	1.4	1.0	1.3	1.2	1.4
<u>•</u>	0.6	0.7	0.5 2.0	0.5	0.7
6	2.0 11.7	2.0 11.6	11.3	2.0 11.7	2.0 11.2
8	5.5	5.5	5.5	5.4	8.5
9	5.5 1.4	5.5	5.5	5.4 1.2	8.4
10	0.6	1.0 0.7	1.3 0.6	0.5	1.5 0.6
13	2.0	2.0	2.0	2.0	2.0
(1)	2.0	2.0	2.0	2.0	2.0
IC408 ①	3.1 4.1	2.9 3.9	3.1 4.1	3.7 4.2	3.4 4.1
IC409 ①	0	9.0	9.4	0	7.5
3	0	0.4	0.3	0.3	1.6
<u>(5)</u>	5.9	6.3	0	5.9	5.9
0	5.9 5.9	6.3 6.3	6.0 6.0	5.9 5.9	5.9 5.9
10	0.1	0.5	1.2	0.1	0
®	0	6.6	6.9	0	10.7
IC410 ①	3.8	4.0	4.0	0	3.9
3	1.3	1.4	3.1 1.6	2.3	4.0 1.5
•	3.5	3.0	3.8	3.9	3.9
<u> </u>	0.6	1.1	1.1	3.1	1.7
<u> </u>	4.0	4.0 1.9	3.9 1.8	2.5	1.4
0	2.0	2.3	2.0	1.8	3.0
IC411 ①	4.1	3.9	3.8	4.2	4.1
(1) (1)	1.8 2.0	1.9 2.3	1.8	2.5 1.8	1.3 3.0
IC412 ②	0.4	0.4	0.4	5.9	0.6
•	8.9	8.9	8.9	8.9	8.3
(5)	9.0	9.0	8.9	8.9	8.3
(B)	6.0 0.4	6.0 0.4	6.0 0.4	6.0 5.9	0.5
IC413 ②	7.9	8.0	8.0	0	6.9
•	0	5.5	5.5	5.4	0
⑤ ⑫	5.5 3.1	5.5 3.1	5.5 31	5.4 0	8.6 5.1
10	3.1	3.1	3.1	6.0	5.1
19	7.9	8.0	7.9	6.3	6.9
Q102 B	10.9	10.9	10.9	10.7	10.9
C	8.1 11.5	8.1 11.5	8.1 11.5	11.3	8.1 11.5
Q104.1B	-0.2	-0.2	0	0	-0.2
Q107 B	5.0	5.0	5.0	5.0	0.1
Q108 C	2.6	2.6	2.6	2.9	5.0 2.6
E	2.6	2.6	2.6	2.9	2.6
Q113 C	4.1	4.2	4.2	3.8	4.0
Q401 B	1.1	1.5	1.6	1.2	1.0
C	7.5 1.4	6.0 3.2	5.2 3.4	8.4 3.1	10.0
Q402 B	0.5	0.5	0.5	2.4	0.5
С	9.5	8.1	7.4	10.4	6.9
Q407 B	1.4 0	3.2	3.3	3.2 0	0.6
C C	6.6	6.6	6.6	5.4	0.6
Q409 B	1.9	1.6	1.6	1.7	1.6
Q412 B	1.3	2.2 1.0	1.3	2.3	1.4
Q412 B	2.0	1.7	1.9	1.8	2.0
Q417 B	1.4	1.2	1.2	1.2	1.4
Q418 C	2.1	1.7	1.7	1.7	2.0
Q419 B	2.0	1.2	1.1	1.2	1.5 2.0
Q420 B	1.2	1.0	1.0	1.2	1.3
Е	1.8	1.6	1.6	1.8	1.9
Q422 C	2.1	1.7	1.7	1.8	2.0
Q423 B Q425 C	0.5 4.5	0.4 4.5	0.4 4.5	0.4 4.7	0.2 4.5
Q426 C	0.8	0.7	0.7	0.7	0
Q429 B	0.1	0.4	0.4	0.1	0.1
Q432 B	0 -0.3	-1.2 -3.4	-1.2 -2.7	0.4	0.4
Q432 B	11.9	11.8	11.8	-0.1 12.0	-3.9 11.6
Q433 B	0	0	0	0	2.7
C	3.0	3.0	3.0	4.5	0
Q434 B	-0.1 3.6	0 4.5	0 4.8	-0.1 2.9	0.4
Q441 G	-1.1	1.7	-4.8	0	-0.7
D	2.0	-8.1	1.9	1.8	2.0
S	2.0	1.6	1.9	1.8	2.0
Q442 B	1.3 0.9	1.1 0.7	1.1 0.7	0.7	2.1 1.5
Q444 C	1.2	1.2	1.4	2.2	1.3
Q445 C	0.4	1.4	1.3	0.3	0.4

6-29

A BOARD IC305 M51279FP



A (2/3) BOARD * MARK VOLTAGE

A (23)	DUAL	ソンホト	MARK V	OLIAC	á L
ſ	PAL	NTSC	NTSC	To WIDEO	ANALOG
	1	3.58	4.43	S-VIDEO	RGB
IC302 ①	2.9	2.9	0.3	2.9	2.9
(5)	5.3	4.5	4.5	4.5	4.5
0	10.5	0	0	0	0
IC304 (4)	2.2	2.2	2.2	2.2	2.2
0	9.4	9.4	9.4	9.4	9.4
10	7.3	2.5	2.5	2.6	2.5
10	7.3	2.5	2.6	2.6	2.5
19		2.2	2.2	2.2	2.2
(18)		2.2	2.2	2.3	2.2
IC305 ①		2.8	0	2.8	2.8
0		2.5	2.4	2.4	1.3
<u> </u>		4.1	4.1		
<u> </u>		0		4.2	4.5
<u></u>			0	0	0.1
		2.5	2.4	2.5	2.7
<u> </u>	0	0.8	0.8	0.9	0.9
<u> </u>		1.9	1.9	1.9	2.7
IC306 ①	8.1	8.1	8.1	8.1	0
<u> </u>	0	0	0.1	0.1	4.4
IC309 ②	3.6	3.6	3.6	3.6	3.6
•	0	0	0	0	4.4
IC310 ①	6.2	6.2	6.2	6.2	5.9
3	6.3	6.2	6.2	6.2	5.9
(13)	5.9	6.0	6.3	5.9	5.9
IC311 ②	6.2	6.2	6.2	6.2	5.9
0	6.2	6.3	6.2	6.2	
<u> </u>	0.4				5.9
<u> </u>	3.3	0.4	0.4	0.5	0.7
		2.9	2.9	2.9	0
<u> </u>	5.9	5.9	6.2	5.8	5.9
<u>(3)</u>	0.4	0.4	0.4	0.5	0.7
IC312 ②	3.6	3.6	3.6	3.6	3.6
	0	0	12.0	0.1	4.5
IC313 ①	0	0	6.3	6.3	6.3
IC314 ②	0	7.6	0	3.0	0
•	0	0	0	2.9	0.1
IC315 ①	0.4	0.4	0.4	0.4	0.6
•	0.6	0.6	0.6	0.6	0.6
0	9.4	9.3	9.2	9.3	9.4
0	2.5	2.5	2.5	2.5	7.2
<u> </u>	0.4	0.4	0.4	0.4	0.6
<u>(3)</u>	0.4	0.4	0.4	0.4	
IC317 ①	2.0	2.0			0.6
<u> </u>	12.0	12.0	2.1	2.0	12.0
0			12.0	12.0	12.0
	10.7	10.6	10.6	10.5	10.7
10040	9.4	9.4	9.4	9.1	9.4
IC318 (§	11.5	0	11.4	11.4	11.4
IC320 ①	6.3	6.3	6.3	6.3	0
2	3.0	0	3.1	0	0
•	0	0	0	3.3	0
C321 ②	0	0.1	0	2.9	0
•	0	0	0	0.1	2.7
C322 (§	5.8	6.0	6.3	5.9	5.9
C323 (5)	6.2	6.2	6.2	6.2	5.9
0	0	5.6	5.6	5.6	5.6
C324 ③	6.2	6.2			
C326 ①	5.9		6.2	6.2	5.9
② ②	-	6.0	6.3	5.9	5.9
	5.9	5.9	6.2	5.8	5.9
<u> </u>	5.9	5.9	6.2	5.8	5.9
<u>(S)</u>	1.7	1.6	1.6	2.1	2.1
0	2.4	2.3	2.3	2.3	4.6

	PAL	NTSC	NTSC	S-VIDEO	ANALOG
IC326 (7)		3.58	4.43		HGB
(B		10.8	0	-0.1	0
9		6.3	6.3	6.2	5.9
0		6.2	6.3	6.2	5.9
<u>@</u>		6.2	6.2	6.2	5.9
1		6.2	6.3	6.2	5.9 5.9
<u> </u>		6.2	6.2	6.2	5.9
IC350 ①		6.4	6.3	6.1	6.9
2		6.2	6.3	6.0	6.4
3	6.2	6.2	6.3	6.0	6.4
Q300 B	2.5	2.2	2.2	2.2	2.2
C	10.2	10.4	10.5	10.4	10.5
E	1.9	1.6	1.6	1.6	1.6
Q301 E	8.6	8.2	8.3	8.5	9.8
Q303 E	5.7	5.7	5.7	5.5	5.7
Q304 B	6.3	6.3	6.4	6.2	6.3
E	5.7	5.7	5.7	5.5	5.7
Q305 B	8.6	8.2	8.3	8.5	9.8
E	7.9	7.6	7.7	7.9	9.1
Q307 E	1.4	1.1	1.2	1.4	2.7
Q309 B	1.4	1.1	1.2	1.4	2.6
С	0.1	0.2	0.1	0.1	0
E	0.7	1.7	1.8	0	1.8
Q312 B	0.7	1.7	1.8	0	1.8
C	8.2	8.6	8.3	8.3	8.1
Q313 B	8.2	8.6	8.3	8.2	8.1
C	3.3	2.9	3.1	3.2	3.3
E.	8.8	9.3	9.0	8.9	8.7
Q314 B	11.9	11.9	11.9	11.9	11.9
C C	0	0	0	0	0
Q315 B	3.3	2.9	3.1	3.2	3.3
Q318 B	12.1	3.5	3.8	3.8	4.0
C	1.0	1.2	11.9	12.1	12.1
Q322 B	2.4	2.3	2.3	1.0	0.9
E	1.8	1.8	1.8	5.6 5.0	2.4
Q323 B	5.0	0	0	0	1.8
C	0	3.5	3.5	3.5	3.6
Q324 B	4.1	0	0	0	0
C	0	0.8	0.8	0.8	0.9
Q332 B	4.9	0	4.9	0.0	0.5
С	0	4.4	0	4.3	4.4
Q333 B	1.7	1.9	1.8	1.7	1.7
E	1.5	1.7	1.5	1.5	1.4
Q336 G	4.7	4.6	4.7	4.2	4.8
D	4.3	4.3	4.3	4.5	4.3
2339 B	12.3	12.5	12.4	12.5	12.3
Q354 B	12.0	0	0	0	0
E	12.0	0	0	0	-0.2
Q358 E	2.2	0	2.2	2.2	2.2
2360 1	6.2	6.2	6.3	6.1	6.4
3	6.2	6.2	6.3	6.0	6.4
5	1.3	2.2	4.1	5.3	3.8
2362 C	9.0	9.0	9.5	9.2	8.5
2364 C	3.3	2.9	2.9	2.8	2.9
2365 B	0.4	0.3	0.3	0.4	0.4
2369 B	0.8	0.8	0.8	0.9	4.9
2372 B	0	0	0	0	4.9
C	11.7	11.8	11.8	11.7	0

A (2/3) BOARD * MARK LIST

	20INCH MODEL	14INCH MODEL
C1302	390p :CHIP	470p CH:CHIP
Q373	DTC144EKA	#
R354	820k :CHIP	1.2M :CHIP
R2357	#	56k :CHIP
R2367	100k :CHIP	120k :CHIP
R3350	330k :CHIP	820k :CHIP
R3351	560k :CHIP	820k :CHIP
R3353	390k :CHIP	#
R3365	120k :CHIP	#
R3366	68k :CHIP	#
R3367	68k :CHIP	#
R3368	22k :CHIP	#
R3369	47k :CHIP	#
R3380	1M :CHIP	# .
R3398	36k RN-CP	27k :RN-CP

A (2/3) BOARD WAVEFORMS

A (2/3) BOARD WAV	EFORMS	
16	16	17
1 Part	الهيه الهيم	J
1.0Vp-p (H)	S-VIDEO 0.94Vp-p (H)	0.85Vp-p (H)
100	2 9	2
1 Lizzan Lizzan		# 10 B W 10 B
s-video 0.94Vp-p (H)	PAL 0.2Vp-p (H)	NTSC3.58 0.24Vp-p (H) NTSC4.43 0.12Vp-p (H)
20	1	22
A 4 A 1 A 1	NTSC3.58, 4.43 0.24Vp-p (H)	J*************************************
PAL 0.27Vp-p (H)	0.27Vp-p (H)	PAL 0.4Vp-p (H)
② [////////////////////////////////////	2	3
NTSC3.58 0.37Vp-p (H) NTSC4.43		
4.0Vp-p (H)	8-VIDEO 0.4Vp-p (H)	ANALOG RGB 1.9Vp-p (H)
19	29	25
1.0Vp-p (H)	PAL 0.26Vp-p (H)	NTSC3.58, 4.43 0.23Vp-p (H)
25	1	②
14 14 14 14 14 14 14 14 14 14 14 14 14 1		
8-VIDEO 0.18Vp-p (H)	5.4Vp-p (H)	1.0Vp-p (H)
	[®]	® ₩\~\W\~
NTSC3.58, 4.43 S-VIDEO 1.1Vp-p (H)	PAL 0.8Vp-p (H) NTSC3.58 0.85Vp-p (H)	NTSC4.43 0.73Vp-p (H) s.video 0.9Vp-p (H)
29	30	32
		_Րևս <u>-</u> Մևս-Մև
ANALOG RGB 0.7Vp-p (H)	analog rgb 0.7Vp-p (H)	s.video 1.7Vp-p (H)
32	33	33
	_لحي ^{مه} لحي ^{مه}	
ANALOG RGB 1.4Vp-p (H)	9-VIDEO 1.3Vp-p (H)	ANALOG RGB 1.4Vp-p (H)
34 - AM - AM - A	39	
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s-video 1.3Vp-p (H)	ANALOG RGB 1.4Vp-p (H)	

В

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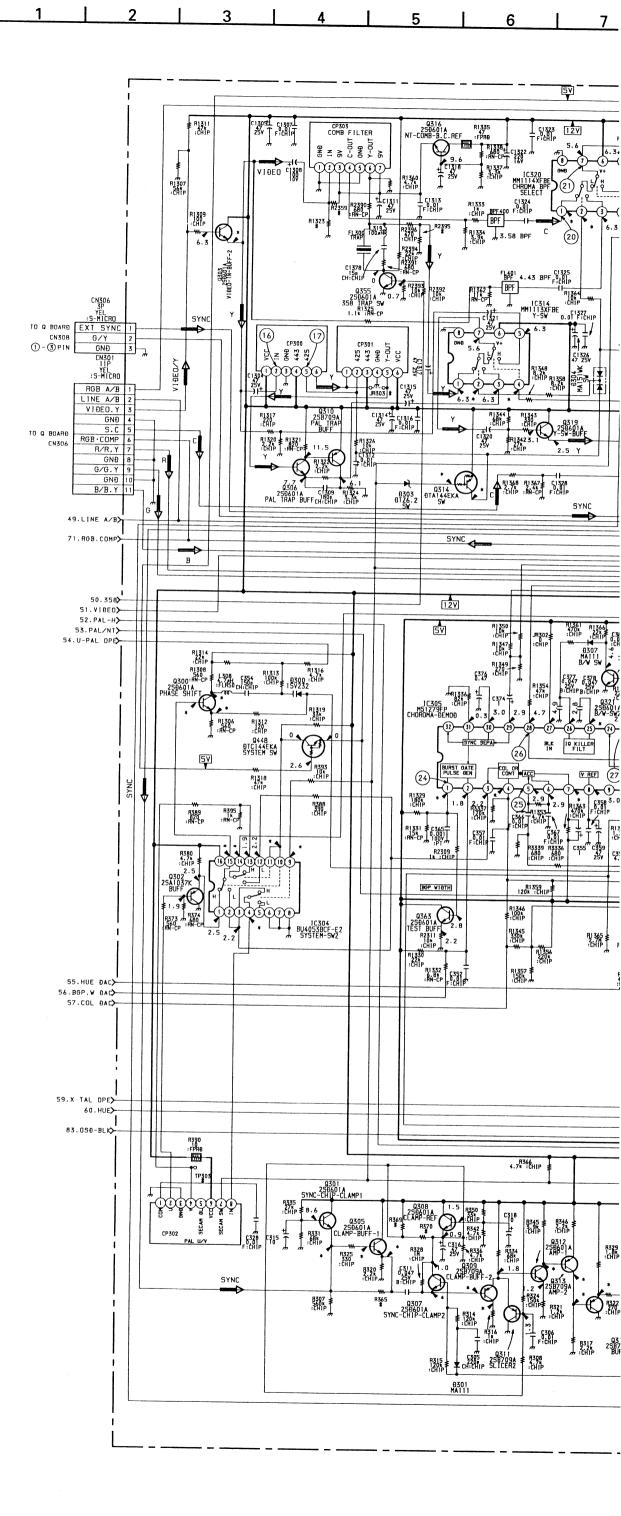
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TO Q BO CN (1) - (3)

6-30

NTSC3.58 0.24Vp-p (H) NTSC4.43 0.12Vp-p (H) PAL 0.4Vp-p (H) Н ANALOG RGB 1.9Vp-p (H) <u>/W~</u>W^ NTSC4.43 0.73Vp-p (H) s-VIDEO 0.9Vp-p (H) s-video 1.7Vp-p (H) ANALOG RGB 1.4Vp-p (H) M



6-31

) BOARD WAVEFORMS

1.0Vp-p (H)

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s-video 0.94Vp-p (H)

4

PAL 0.27Vp-p (H)

NTSC3.58 0.37Vp-p (H) NTSC4.43 4.0Vp-p (H)

1.0Vp-p (H)

s-video 0.18Vp-p (H)

NTSC3.58, 4.43 S-VIDEO 1.1Vp-p (H)

ANALOG RGB 1.4Vp-p (H) 16

20

21)

22

25

26

28

30

33

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s-video 0.94Vp-p (H)

PAL 0.2Vp-p (H)

1 T

8-VIDEO 0.4Vp-p (H)

PAL 0.26Vp-p (H)

 M_{-M}

ANALOG RGB 0.7Vp-p (H)

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s-video 1.3Vp-p (H)

ANALOG RGB 1.4Vp-p (H) 17

20

22

23

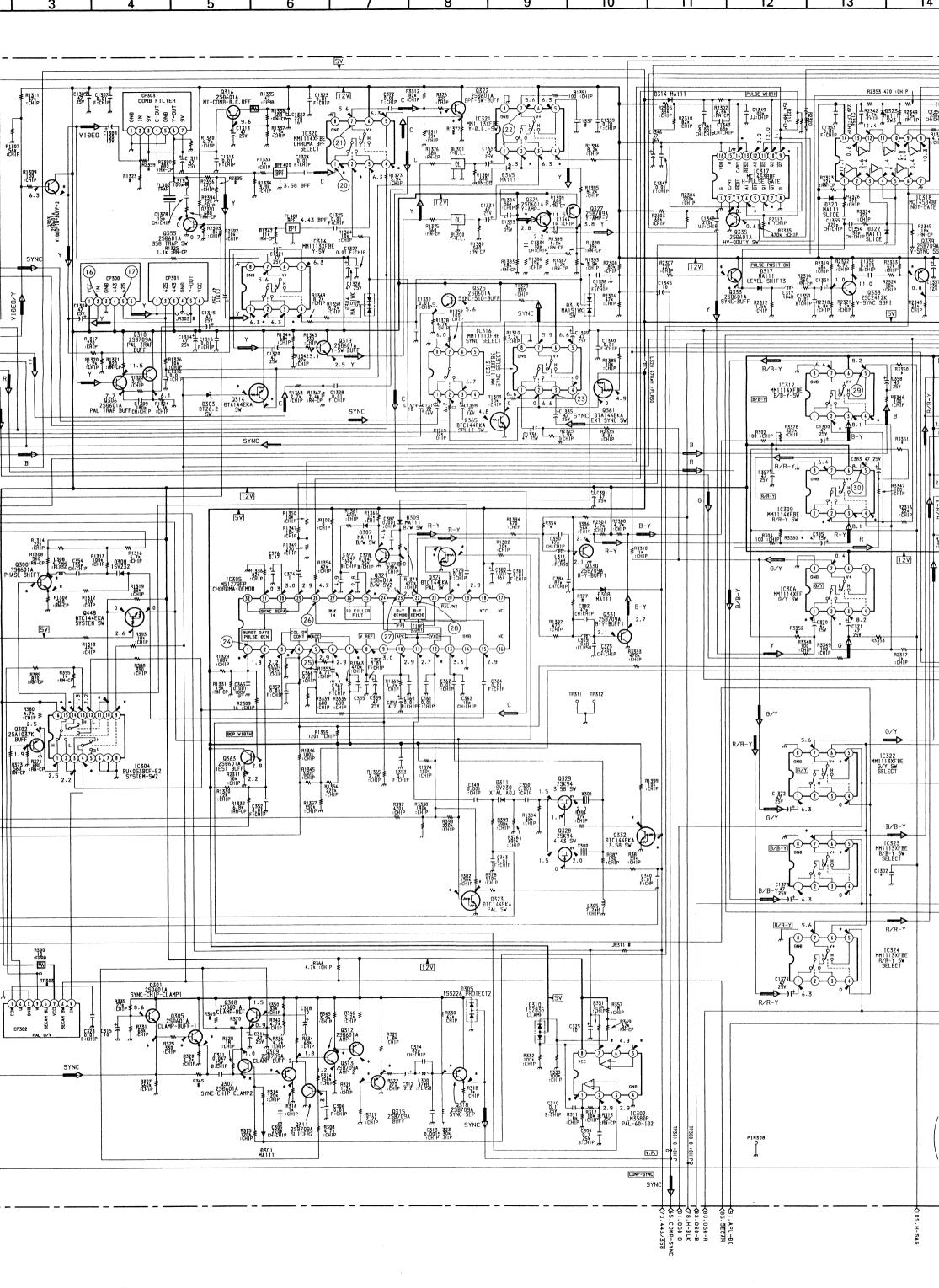
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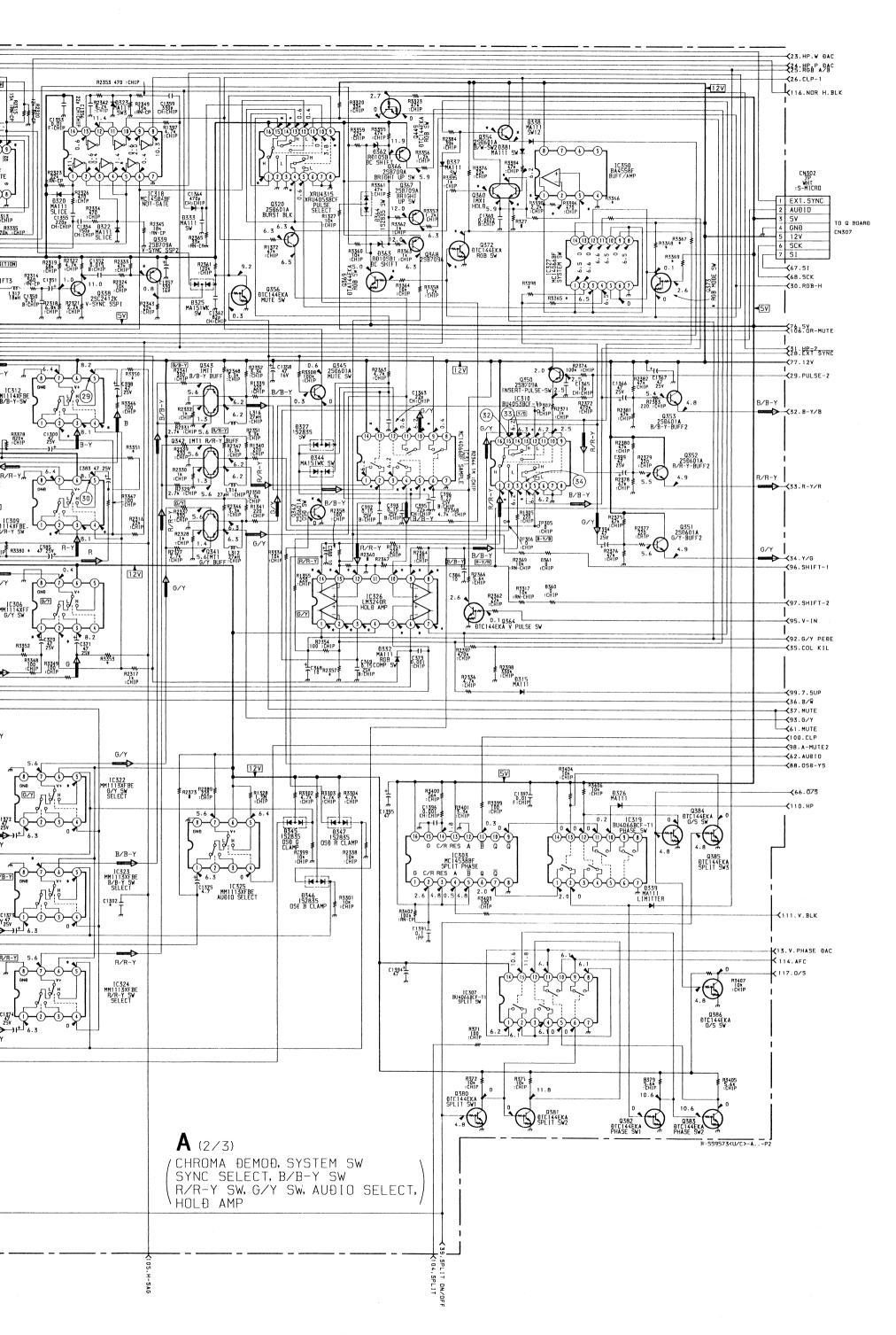
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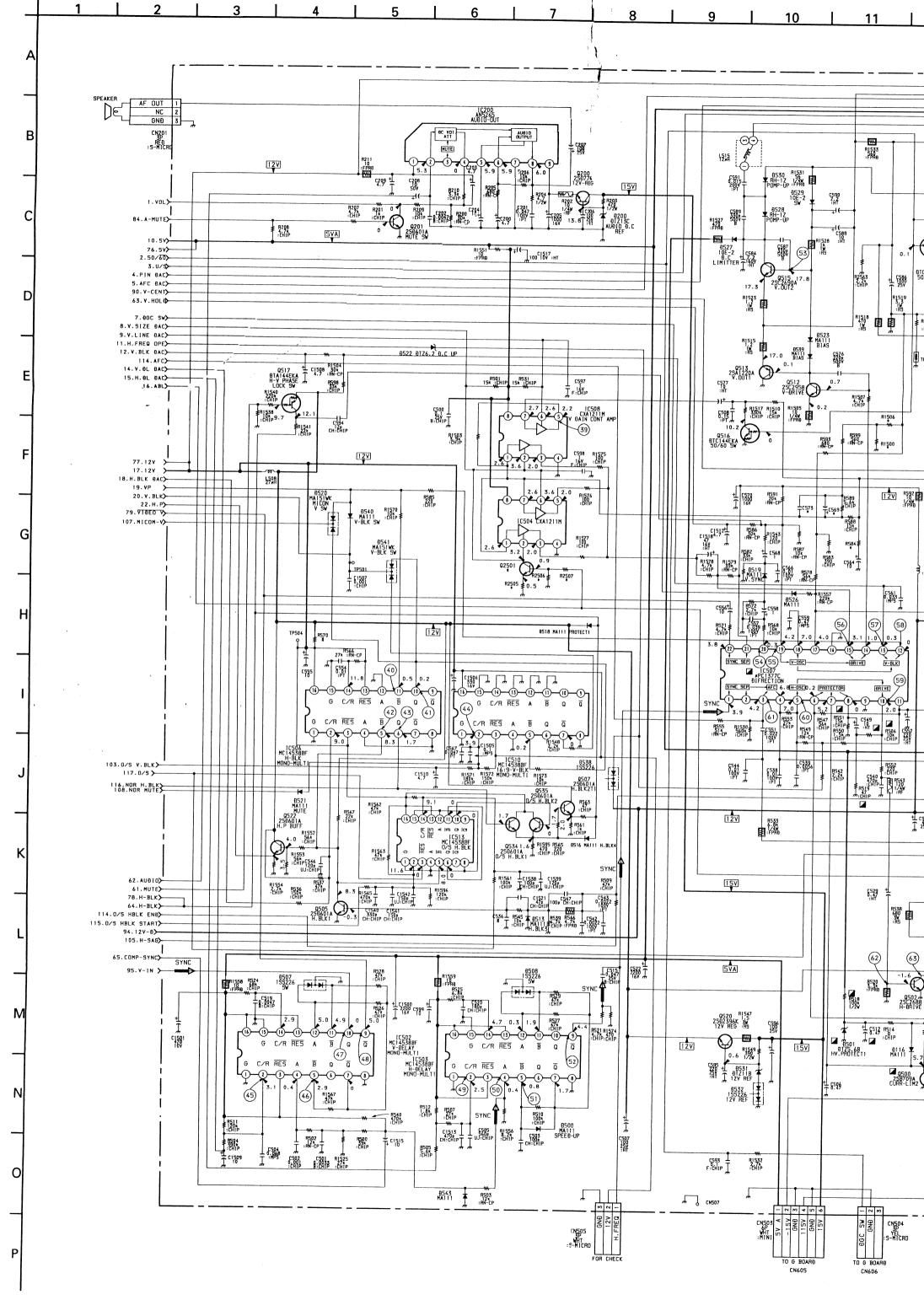
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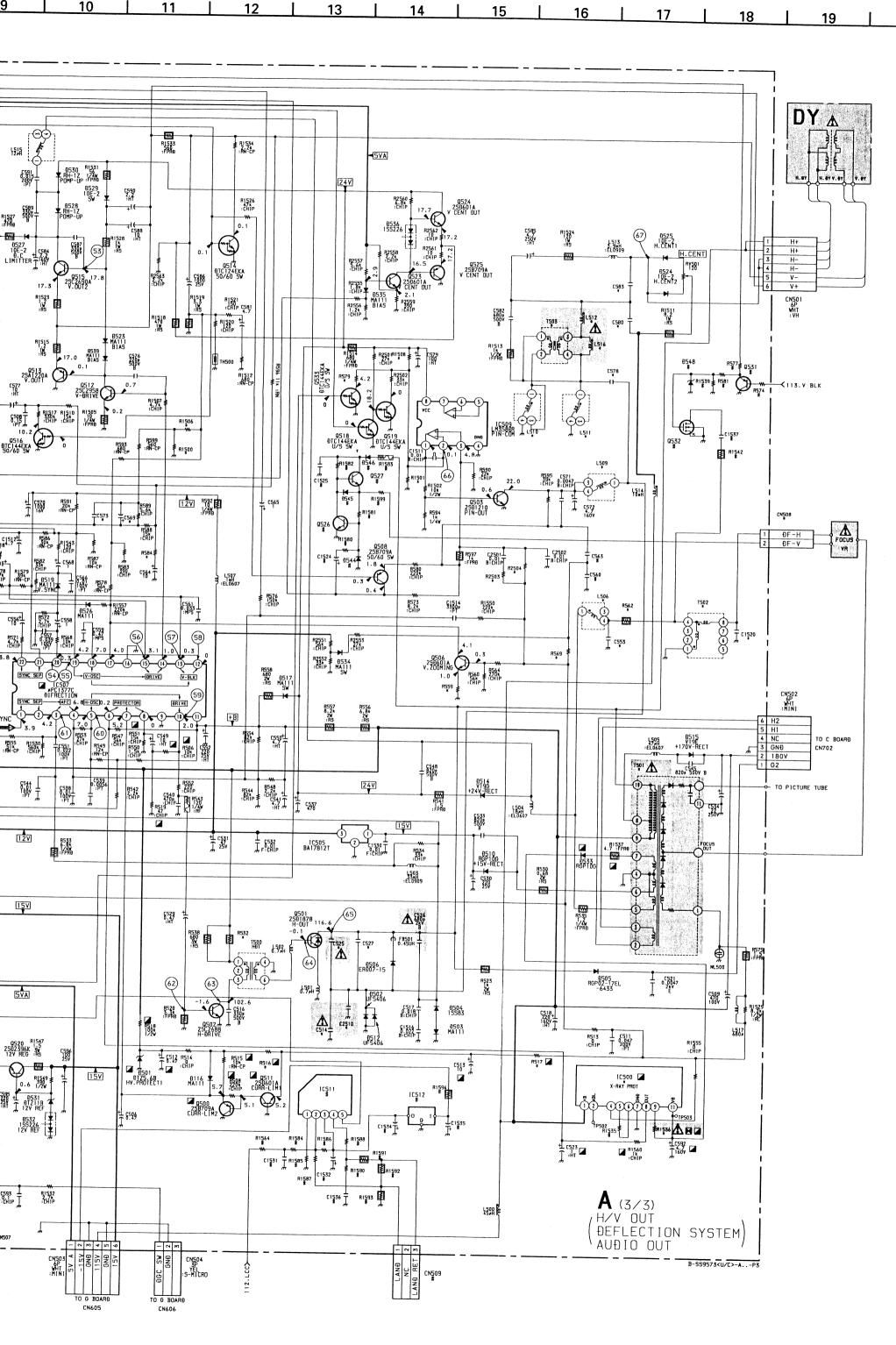
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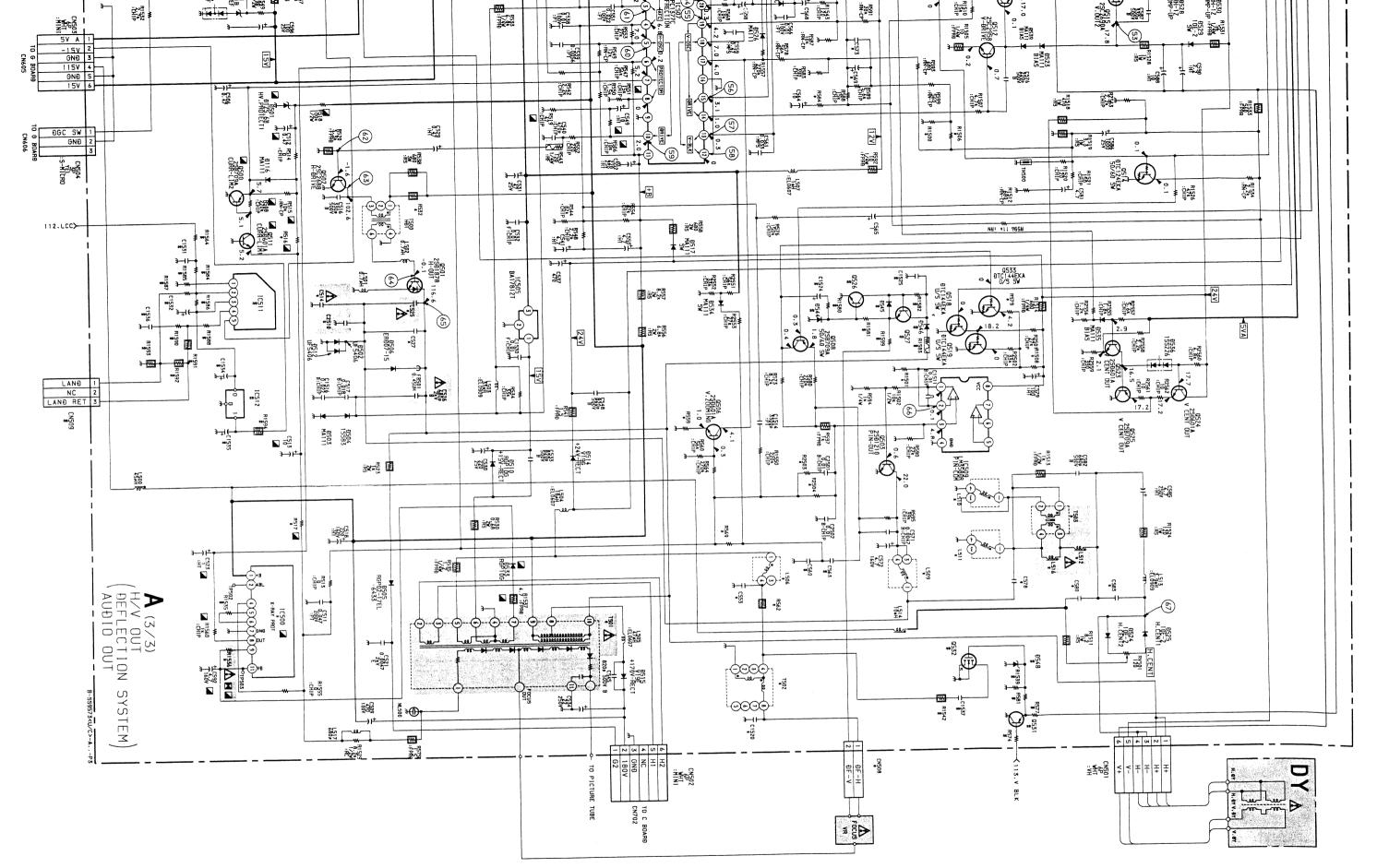
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |



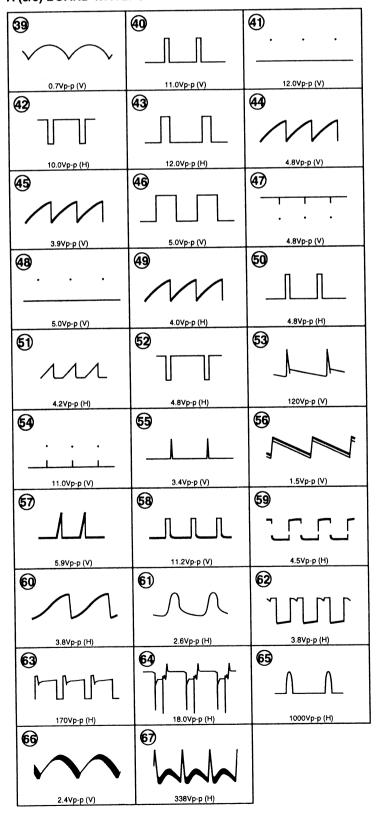




20

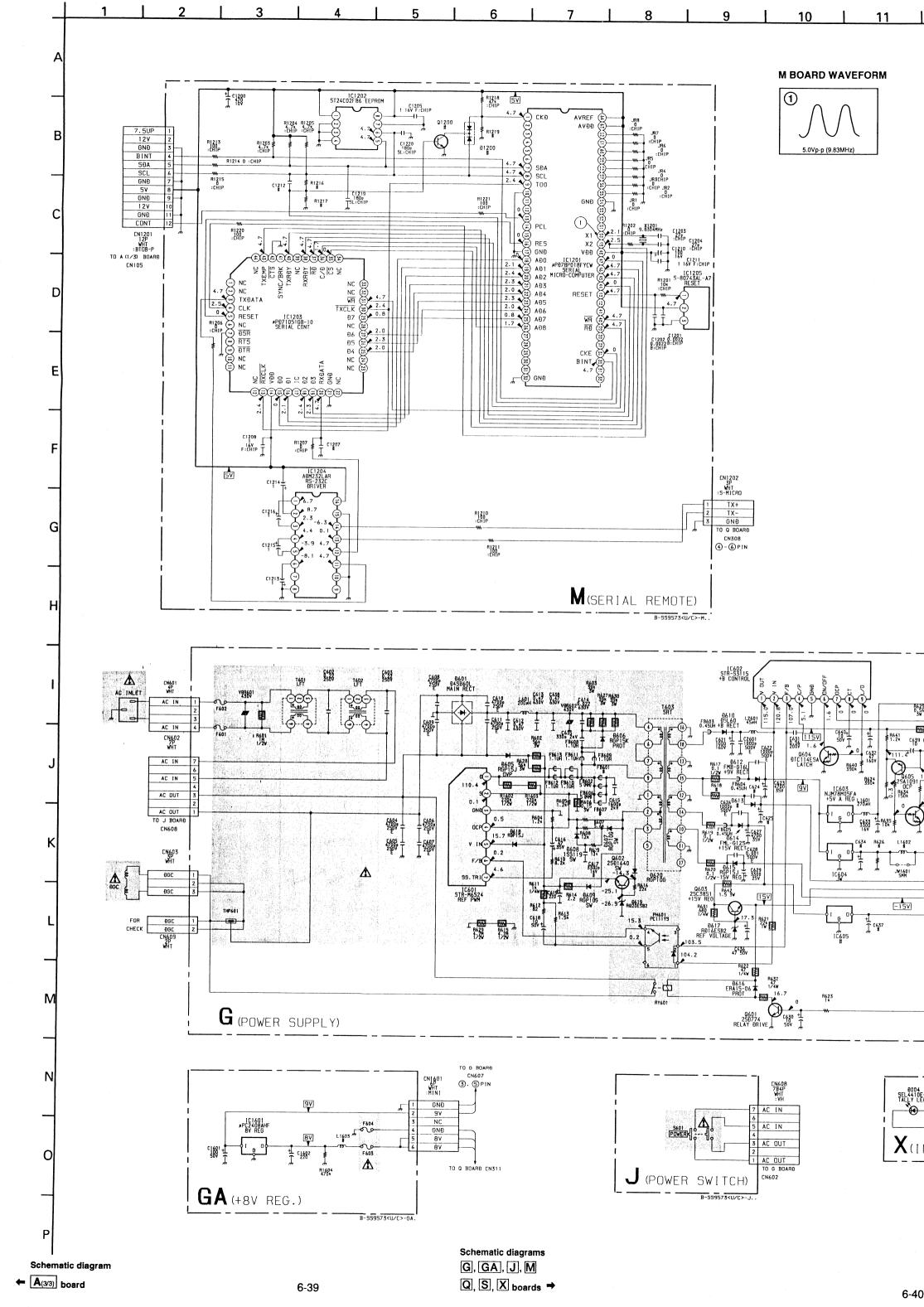


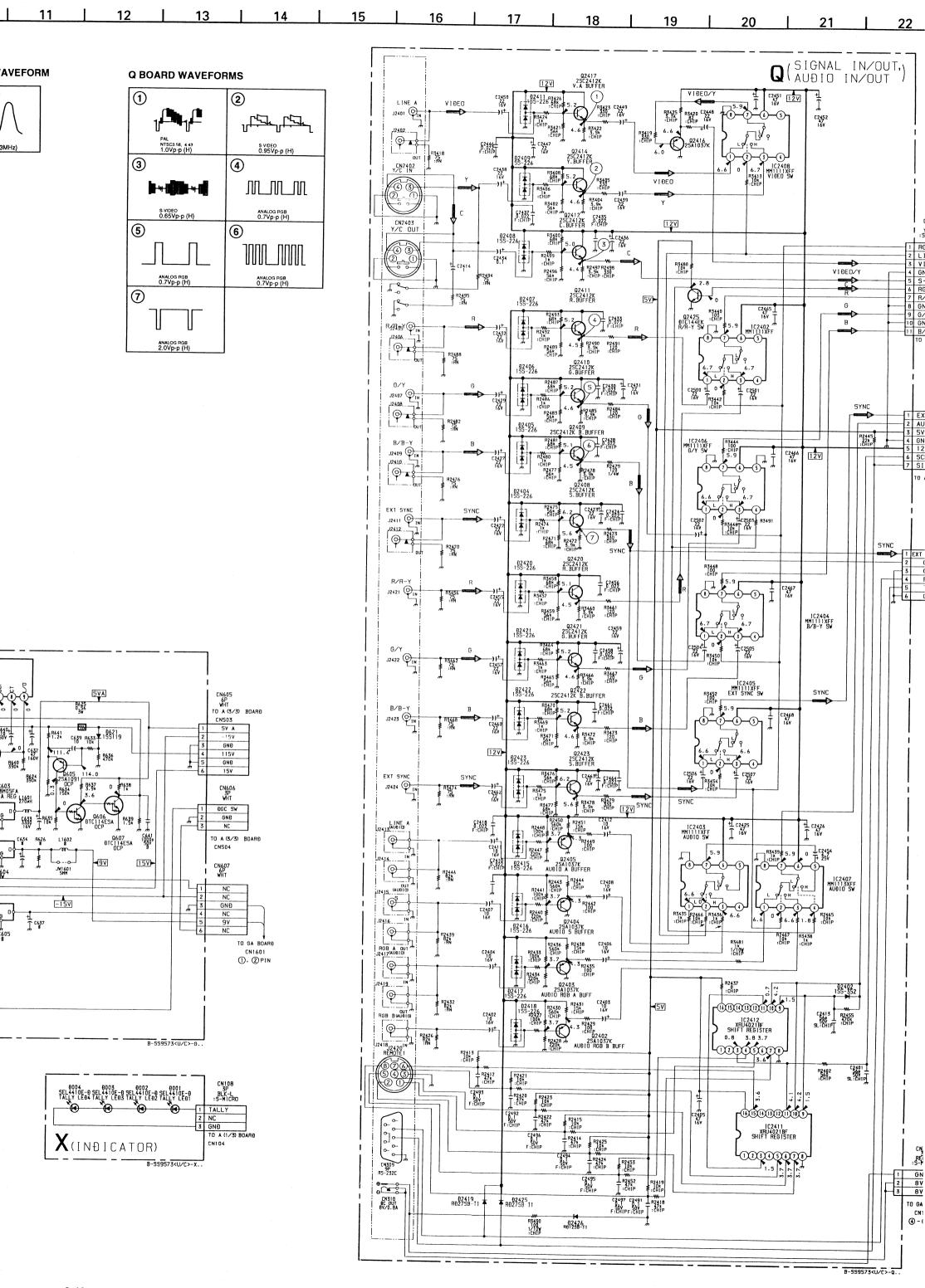
A (3/3) BOARD WAVEFORMS

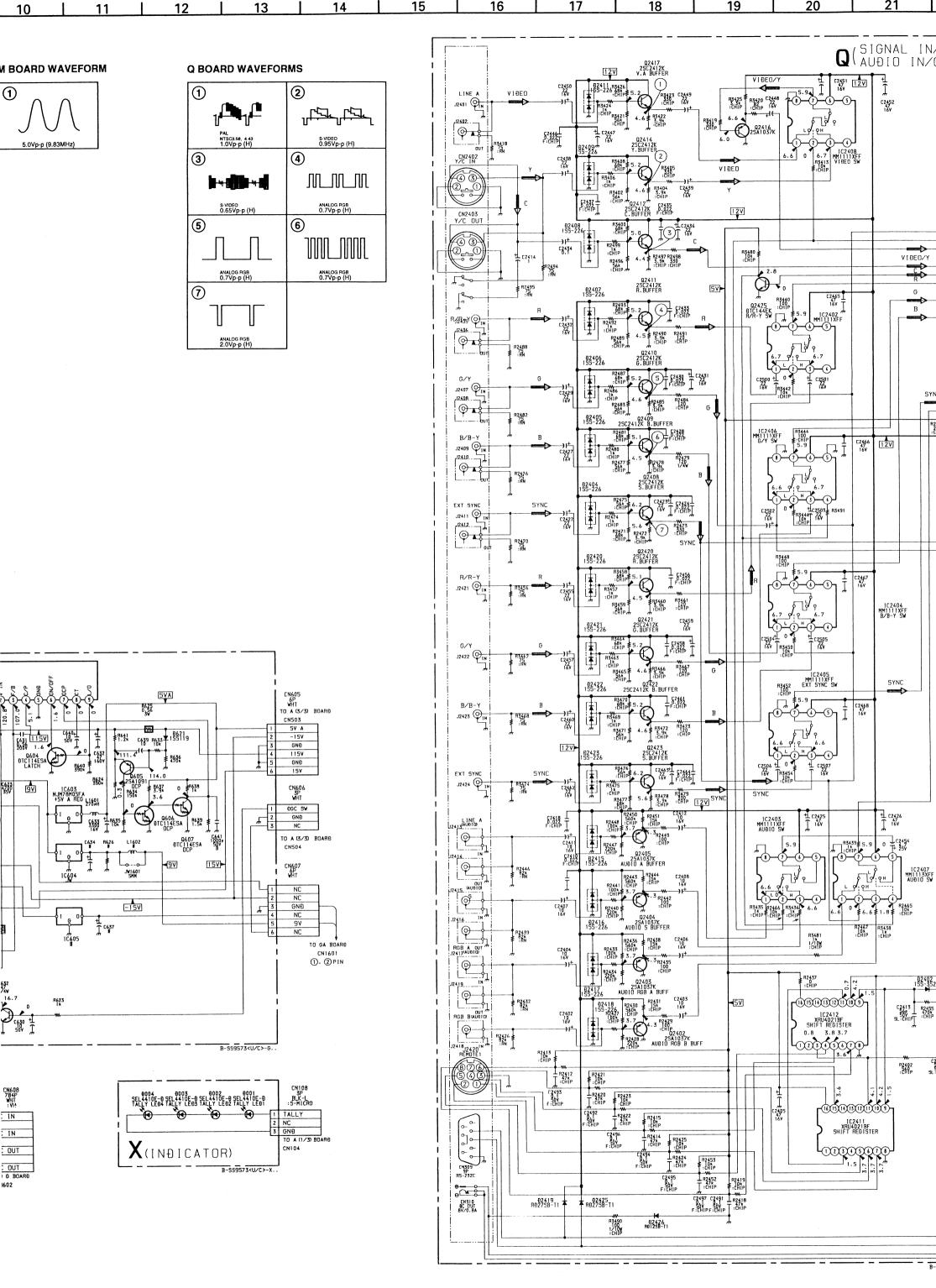


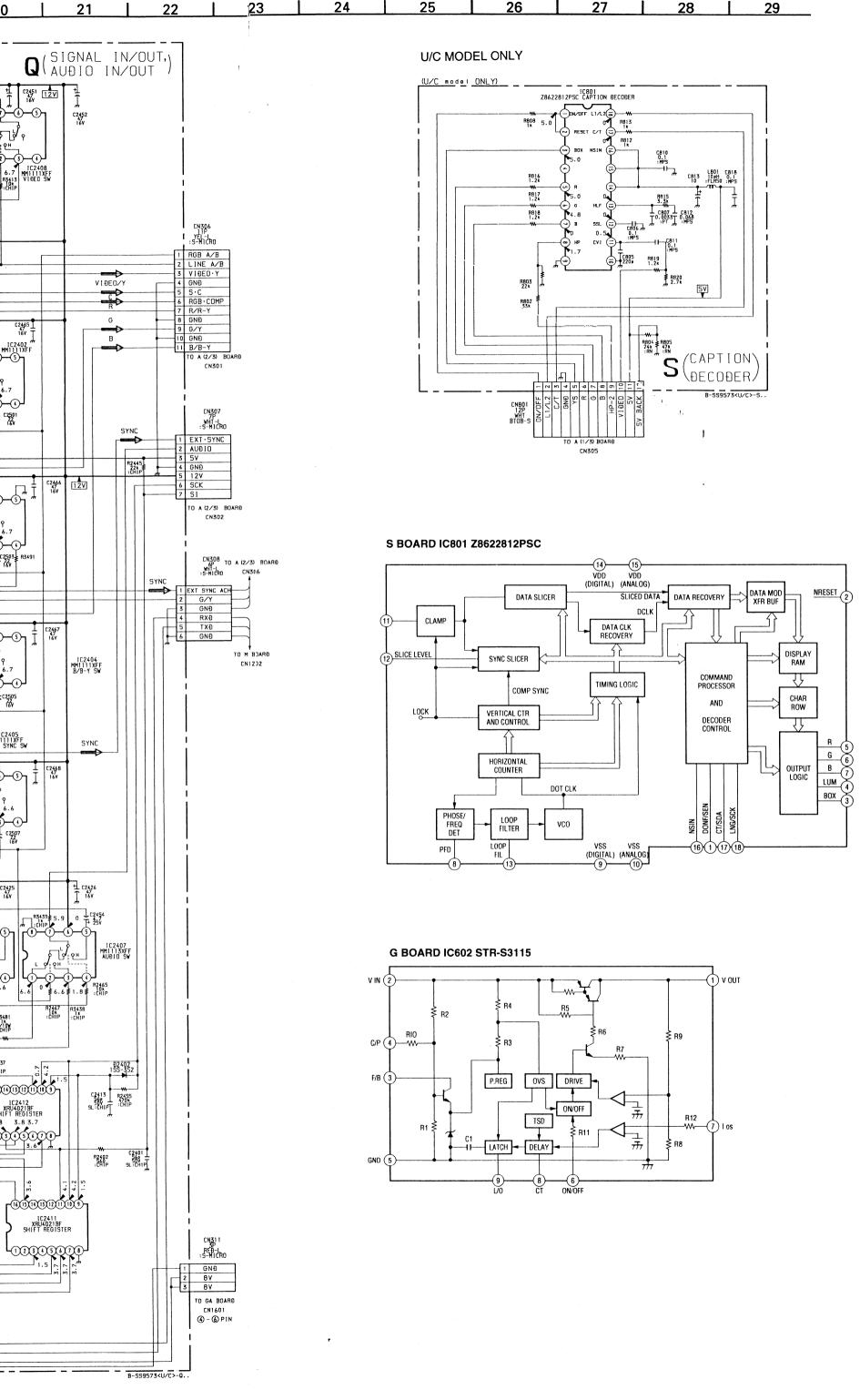
A (3/3) BOARD * MARK LIST

	T 20INCH MODEL	14INCH MODEL	
C514	0.022 630V :PP	0.01 630V :PP	
C525	0.012 2kV :PP	0.01 2kV :PP	
C527	#	470p 2kV	
C553	0.082 200V :PT	#	
C569	3.3 25V :TA	4.7 25V :TA	
C573	1 :MPS	0.47 :MPS	
C578	1.0 200V :PP	1.4 200V :PP	
C580	0.33 200V :PP	0.24 200V :PP	
C583	1.5 200V :PP	1.8 200V :PP	
C1520	150p 2kV B	#	
C2510	#	0.0015 630V :PP	
CN508	2P WHT :MINI	#	
IC500	H8D7249	H8D7248	
L506	COIL, DUST CORE	#	
L509	HCC	DYNAMIC CONVERSIO	
L510	:PMC	#	
L511	#	COIL	
L512	90µH	45µH	
L516	#	:HLC	
Q2501	2SD601A	#	
R516	100k :CHIP	180k :CHIP	
R517	20k 1/2W :RN	10k 1/2W :RN	
R532	680 3W :RS	3.3k 3W :RS	
R559	330k :CHIP	220k :CHIP	
R562	22 1/4W :FPRD	#	
R569	47k 1/2W	18k 1/2W	
R579	15k :CHIP	22k :CHIP	
R584	10k :CHIP	8.2k :CHIP	
R1500	820 :RN-CP	680 :RN-CP	
R1501	8.2k :CHIP	12k :CHIP	
R1506	470 :CHIP	220 :CHIP	
R1508	39k :CHIP	27k :CHIP	
R1536	62k :RN-CP	75k :RN-CP	
R2503	100k :CHIP	47k :CHIP	
R2504	150k :CHIP	100k :CHIP	
R2505	470k :CHIP	#	
R2506	120k :CHIP	#	
R2507	220k :CHIP	#	
T501	1-453-234-11	1-453-233-11	
T502	DFT	#	
T503	HLC	#	









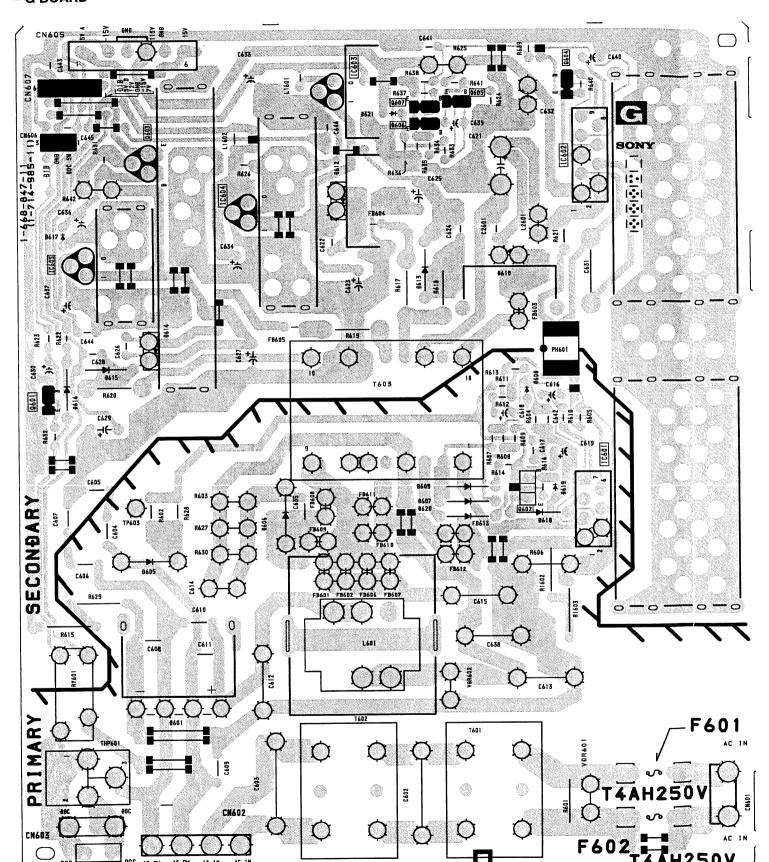




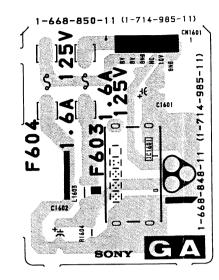
M

- M B

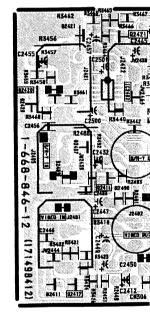
- G BOARD -



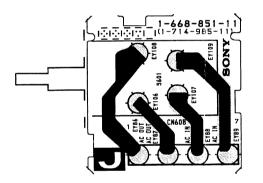
- GA BOARD -



– Q BOARD –



- J BOARD -



- X BOARD -

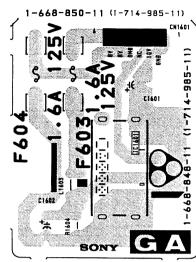




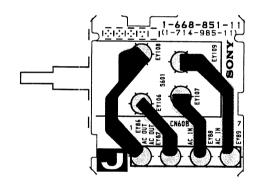




- GA BOARD -



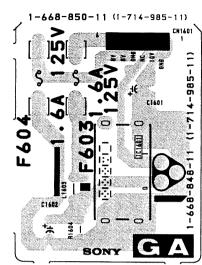
- J BOARD -



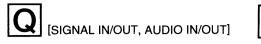
- X BOARD -





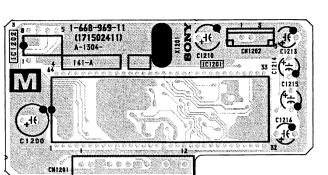


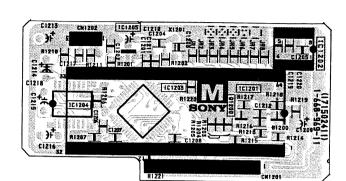




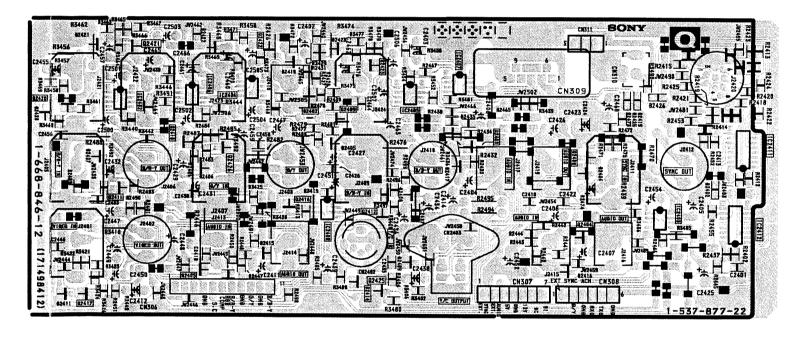
<B Side>



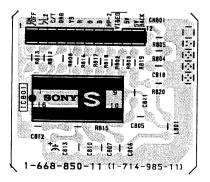




- Q BOARD -

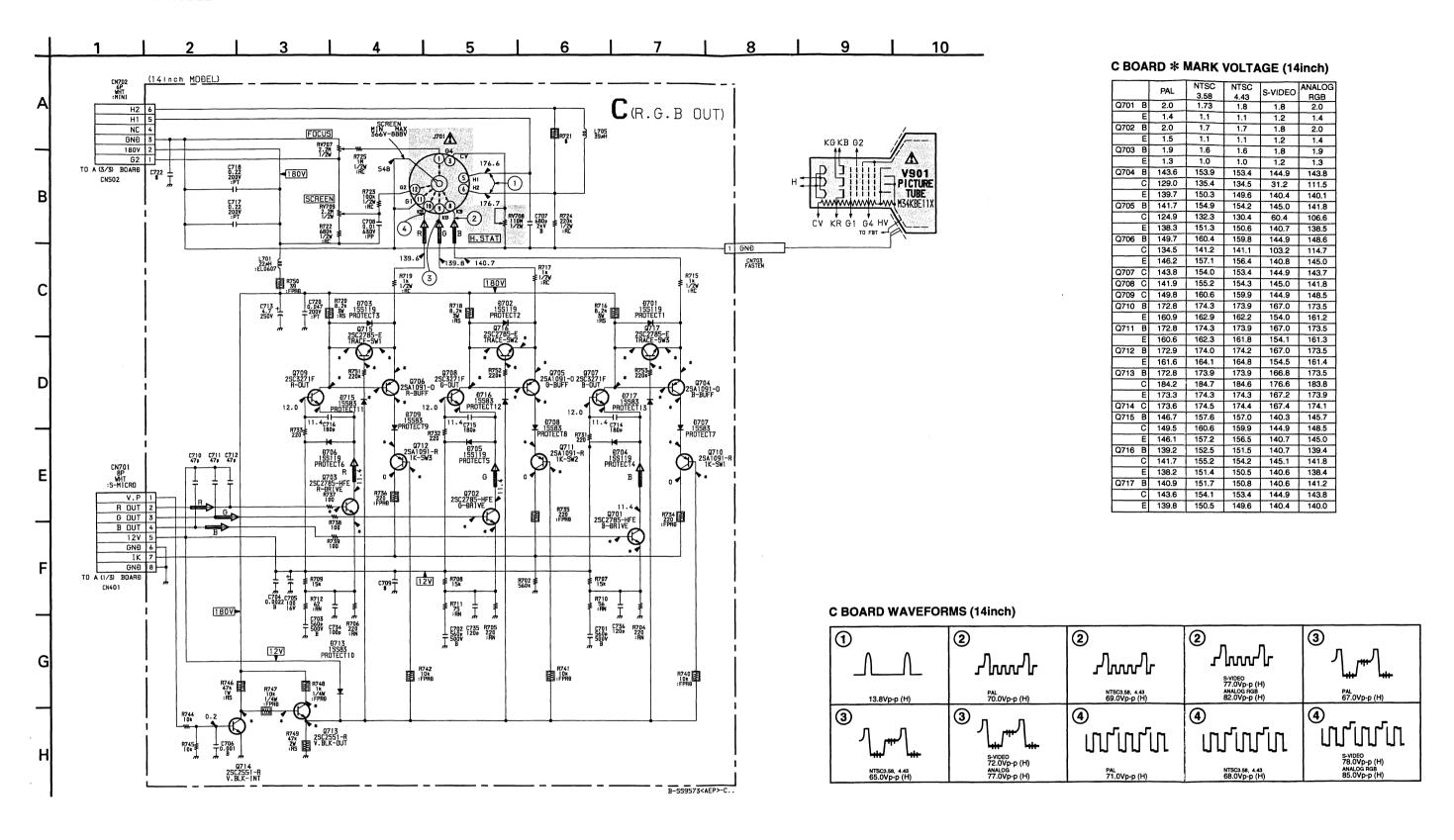


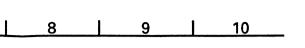
- S BOARD -U/C MODEL ONLY

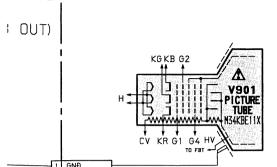


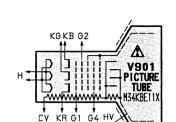
SONY-SP584 / Druck 16

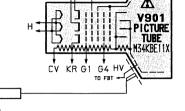
G

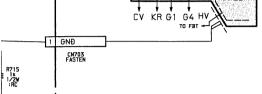
















C BOARD WAVEFORMS (14inch)

①	2	2	2	3
	ւլտտլո	ՎԽԽՎԻ	3-VIDEO (H)	\
13.8Vp-p (H)	PAL 70.0Vp-p (H)	NTSC3.58, 4.43 69.0Vp-p (H)	ANALOG RGB 82.0Vp-p (H)	РАL 67.0Vp-р (H)
3	3 , ,	4	4	4
اربيم ال	بيار ښيار ا	וטקוטקוט	וחקוטקוט	MMM.
NTSC3.58, 4.43	s-video 72.0Vp-p (H) ANALOG	PAL 71.0Vp-p (H)	NTSC3.58, 4.43	S-VIDEO 78.0Vp-p (H) ANALOG RGB
65.0Vp-p (H)	77.0Vp-p (H)	71.0Vp-p (H)	68.0Vp-p (H)	85.0Vp-p (H)

C BOARD * MARK VOLTAGE (14inch)

 PAL
 NTSC 3.58 4.43
 NTSC 4.43
 S-VIDEO RGB
 ANALOG RGB

 2.0
 1.73
 1.8
 1.8
 2.0

 1.4
 1.1
 1.1
 1.2
 1.4

2.0 1.7 1.7 1.8 2.0 1.5 1.1 1.1 1.2 1.4

1.9 1.6 1.6 1.8 1.9 1.3 1.0 1.0 1.2 1.3

Q704 B 143.6 153.9 153.4 144.9 143.8 C 129.0 135.4 134.5 31.2 111.5 139.7 150.3 149.6 140.4 140.1 Q705 B 141.7 154.9 154.2 145.0 141.8 124.9 132.3 130.4 60.4 106.6 E 138.3 151.3 150.6 140.7 138.5 Q706 B 149.7 160.4 159.8 144.9 148.6 C 134.5 141.2 141.1 103.2 114.7 E 146.2 157.1 156.4 140.8 145.0 Q707 C 143.8 154.0 153.4 144.9 143.7

Q708 C 141.9 155.2 154.3 145.0 141.8 Q709 C 149.8 160.6 159.9 144.9 148.5 Q710 B 172.8 174.3 173.9 167.0 173.5 E 160.9 162.9 162.2 154.0 161.2 Q711 B 172.8 174.3 173.9 167.0 173.5

C711 B	172.8	174.3	173.9	167.0	173.5
E	160.6	162.3	161.8	154.1	161.3
C712 B	172.9	174.0	174.2	167.0	173.5
E	161.6	164.1	164.8	154.5	161.4
C713 B	172.8	173.9	173.9	166.8	173.5
C	184.2	184.7	184.6	176.6	183.8
E	173.3	174.3	174.3	167.2	173.9
C714	C715	C715	C715	C715	C715
C715	C715	C715	C715	C715	
C716	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715		
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717	C715	C715	C715	C715	
C717					

Q714 C 173.6 174.5 174.4 167.4 174.1 Q715 B 146.7 157.6 157.0 140.3 145.7 C 149.5 160.6 159.9 144.9 148.5 E 146.1 157.2 156.5 140.7 145.0 Q716 B 139.2 152.5 151.5 140.7 139.4 C 141.7 155.2 154.2 145.1 141.8

 C
 141.7
 155.2
 154.2
 145.1
 141.8

 E
 138.2
 151.4
 150.5
 140.6
 138.4

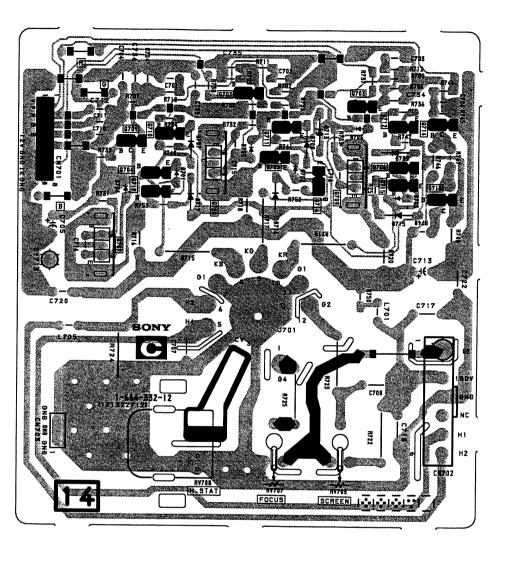
 Q717
 B
 140.9
 151.7
 150.8
 140.6
 141.2

 C
 143.6
 154.1
 153.4
 144.9
 143.8

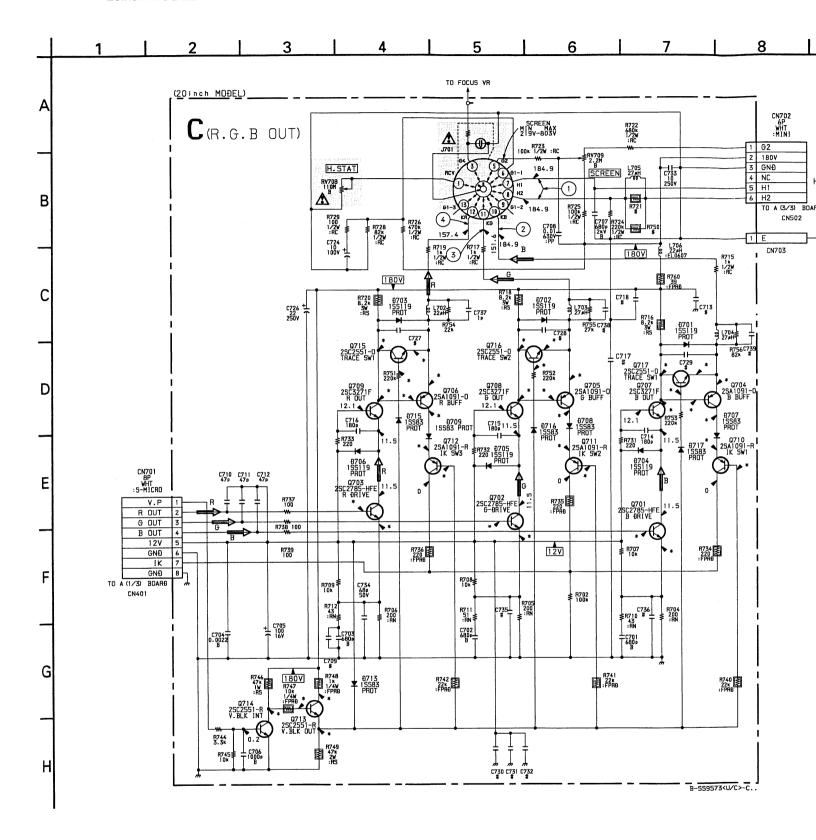
 E
 139.8
 150.5
 149.6
 140.4
 140.0



- C BOARD -



359573<AEP>-C..



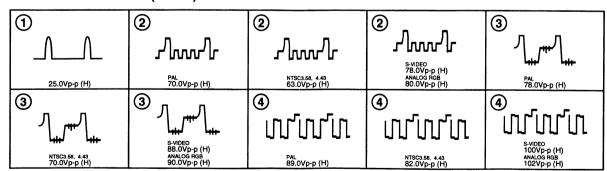
C BOARD * MARK VOLTAGE (20inch)

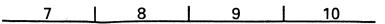
	_		NTSC	NTSC	1	ANALOG
		PAL	3.58	4.43	S-VIDEO	RGB
Q701	В	2.0	1.73	1.8	1.8	2.0
	Е	1.4	1.1	1.1	1.2	1.4
Q702	В	2.0	1.7	1.7	1.8	2.0
	E	1.5	1.1	1.1	1.2	1.4
Q703	В	1.9	1.6	1.6	1.8	1.9
	E	1.3	1.0	1.0	1.2	1.3
Q704	В	143.6	153.9	153.4	144.9	143.8
	c	129.0	135.4	134.5	31.2	111.5
	E	139.7	150.3	149.6	140.4	140.1
Q705	В	141.7	154.9	154.2	145.0	141.8
	ट	124.9	132.3	130.4	60.4	106.6
	E	138.3	151.3	150.6	140.7	138.5
Q706	В	149.7	160.4	159.8	144.9	148.6
	ट	134.5	141.2	141.1	103.2	114.7
	E	146.2	157.1	156.4	140.8	145.0
Q707	c	143.8	154.0	153.4	144.9	143.7
Q708	c	141.9	155.2	154.3	145.0	141.8
Q709	С	149.8	160.6	159.9	144.9	148.5
Q710	В	172.8	174.3	173.9	167.0	173.5
	Е	160.9	162.9	162.2	154.0	161.2
Q711	В	172.8	174.3	173.9	167.0	173.5
	Е	160.6	162.3	161.8	154.1	161.3
Q712	В	172.9	174.0	174.2	167.0	173.5
	E	161.6	164.1	164.8	154.5	161.4
Q713	В	172.8	173.9	173.9	166.8	173.5
	c	184.2	184.7	184.6	176.6	183.8
	E	173.3	174.3	174.3	167.2	173.9
Q714	C	173.6	174.5	174.4	167.4	174.1
Q715	В	146.7	157.6	157.0	140.3	145.7
	С	149.5	160.6	159.9	144.9	148.5
	E	146.1	157.2	156.5	140.7	145.0
Q716	В	139.2	152.5	151.5	140.7	139.4
	С	141.7	155.2	154.2	145.1	141.8
	E	138.2	151.4	150.5	140.6	138.4
Q717	В	140.9	151.7	150.8	140.6	141.2
	С	143.6	154.1	153.4	144.9	143.8
	E	139.8	150.5	149.6	140.4	140.0

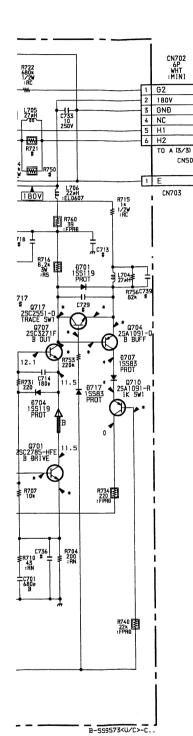
C BOARD WAVEFORMS (20inch)

9

10







C BOARD * MARK VOLTAGE (20inch)

		PAL	NTSC 3.58	NTSC 4.43	S-VIDEO	ANALOG RGB
Q701	В	2.0	1.73	1.8	1.8	2.0
4,0,	E	1.4	1.1	1.1	1.2	1.4
Q702	ᡖ	2.0	1.7	1.7	1.8	2.0
Q/UZ	Ë	1.5	1.1	1.1	1.2	1.4
Q703	ᡖ	1.9	1.6	1.6	1.8	1.9
Q703	팀	1.3	1.0	1.0	1.2	1.3
Q704	Б	143.6	153.9	153.4	144.9	143.8
Q704	리	129.0	135.4	134.5	31.2	111.5
	딑	139.7	150.3	149.6	140.4	140.1
Q705	B	141.7	154.9	154.2	145.0	141.8
Q705	员		132.3	130.4		
	_	124.9			60.4	106.6
0700	E	138.3	151.3	150.6	140.7	138.5
Q706	В	149.7	160.4	159.8	144.9	148.6
	의	134.5	141.2	141.1	103.2	114.7
	E	146.2	157.1	156.4	140.8	145.0
Q707	С	143.8	154.0	153.4	144.9	143.7
Q708	С	141.9	155.2	154.3	145.0	141.8
Q709	<u></u>	149.8	160.6	159.9	144.9	148.5
Q710	В	172.8	174.3	173.9	167.0	173.5
	Ε	160.9	162.9	162.2	154.0	161.2
Q711	В	172.8	174.3	173.9	167.0	173.5
	Е	160.6	162.3	161.8	154.1	161.3
Q712	В	172.9	174.0	174.2	167.0	173.5
	Ш	161.6	164.1	164.8	154.5	161.4
Q713	В	172.8	173.9	173.9	166.8	173.5
	С	184.2	184.7	184.6	176.6	183.8
	Е	173.3	174.3	174.3	167.2	173.9
Q714	С	173.6	174.5	174.4	167.4	174.1
Q715	В	146.7	157.6	157.0	140.3	145.7
	С	149.5	160.6	159.9	144.9	148.5
	Е	146.1	157.2	156.5	140.7	145.0
Q716	В	139.2	152.5	151.5	140.7	139.4
	С	141.7	155.2	154.2	145.1	141.8
	Е	138.2	151.4	150.5	140.6	138.4
Q717	В	140.9	151.7	150.8	140.6	141.2
	С	143.6	154.1	153.4	144.9	143.8
	E	139.8	150.5	149.6	140.4	140.0
				1	1	

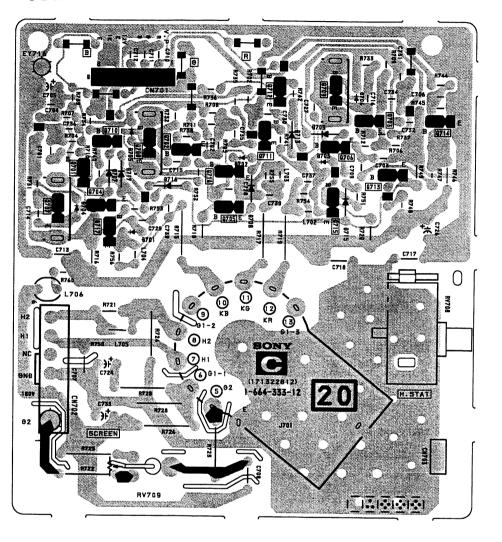
C BOARD WAVEFORMS (20inch)

1	2	2	2	3
	ՎԽԽՎ	ւխաւ	**************************************	\ \ <u>\</u> \
25.0Vp-p (H)	PAL 70.0Vp-p (H)	NTSC3.58, 4.43 63.0Vp-p (H)	78.0Vp-p (H) ANALOG RGB 80.0Vp-p (H)	PAL 78.0Vp-p (H;)
3	3 n n	4	4	4
١ ١٠,٠٠٠ ١		ותלותלות	ותלותלות	MMM
NTSC3.58, 4.43 70.0Vp-p (H)	s-video 88.0Vp-p (H) analog rgb 90.0Vp-p (H)	PAL 89.0Vp-p (H)	NTSC3.58, 4.43 82.0Vp-p (H)	S-VIDEO 100Vp-p (H) ANALOG RGB 102Vp-p (H)

6-50



- C BOARD -

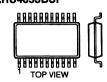


Schematic diagram

← C board (20inch)

6-5. SEMICONDUCTORS

ADM232LAR-REEL XRU4021BF XRU4053BCF



16pin SOP

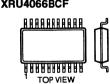
AN5265



AT24C02-10PC ST24C02FB6

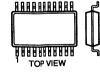


BA10324AF LM324DR MC14024BF MC14066BF MC14584BF MC74HC86F XRU4066BCF

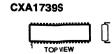


14pin SOP

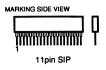
BA4558F CXA1211M LM358D MM1111XF MM1111XFBE MM1113XFB MM1114XFBE ST24C02FM6TR XRA10393F



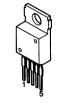
8pin SOP



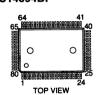
48pin DIP



MC14052BF MC14538BF



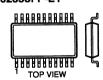
MC14094BF



M51279FP

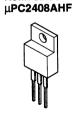


M62358FP-E1

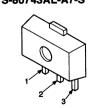


24pin SOP

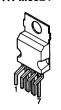
NJM78M05FA



S-80743AL-A7-S



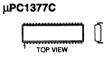
STR-M6524



STR-S3115

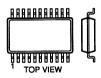


9pin ZIP

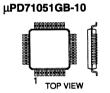


22pin DIP

μPD6451AGT-632-E2



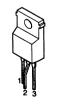
20pin SOP



44pin QFP



XRA17812T

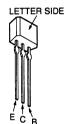




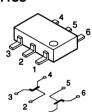




DTC114ESA 2SC2785-HFE



IMT1US



IMX1



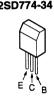
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2SA1220A 2SC2611 2SC688-LK 2SC2690A-Q 2SC3271F-N 2SD1640Q 2SD1640Q, R



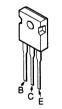
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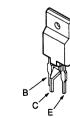
2SC3851-G 2SD2396K



2SD1210 (LK)



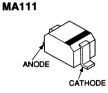
2SD1878-CA



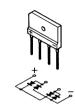
2SK94 2SK94-X2X3X4



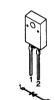
DTZ-TT11-11B DTZ-TT11-13C DTZ-TT11-5.6B DTZ-TT11-6.2 DTZ11B DTZ13C DTZ5.6B DTZ6.2



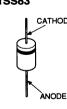
D4SB60L



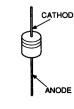
D5L60 FMB-G16L FML-G12S



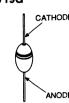
EGP20G EL1Z ERD07-15 RGP02-17EL-6433 RGP10GPKG23 RGP15J-6040 **RGP15K-6179 UF5406** 10E2 **1SS83**



ERA15-06 RD16ES-B2 RD16ES-B3 RD20ES-B2 1SS119-25 1SS133T-77



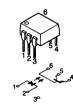
ERC38-06 V19E V19G



MA151WK **1SS184**



PC111YS



RD10SB1



RH-1A RH-1Z



1SS226



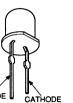
1SV230TPH3 1SV232-TPH3



1S2835 1S2836



SEL4410E-D SLP281C-50 TLG123A **TLY123**



2SA1220A 2SC2611 2SC688-LK 2SC2690A-Q 2SC3271F-N 2SD1640Q 2SD1640Q, R



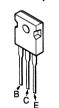
2SC2958 2SD774-34



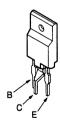
2SC3851-G 2SD2396K



2SD1210 (LK)



2SD1878-CA



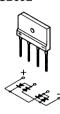
2SK94 2SK94-X2X3X4



DTZ-TT11-11B DTZ-TT11-13C DTZ-TT11-5.6B DTZ-TT11-6.2 DTZ11B DTZ13C DTZ5.6B DTZ6.2 MA111



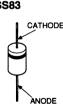
D4SB60L



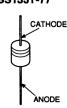
D5L60 FMB-G16L FML-G12S



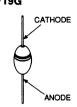
EGP20G EL1Z ERD07-15 RGP02-17EL-6433 RGP10GPKG23 RGP15J-6040 RGP15K-6179 UF5406 10E2 1SS83



ERA15-06 RD16ES-B2 RD16ES-B3 RD20ES-B2 1SS119-25 1SS133T-77



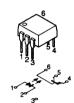
ERC38-06 V19E V19G



MA151WK 1SS184



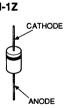
PC111YS



RD10SB1



RH-1A RH-1Z



1SS226



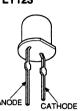
1SV230TPH3 1SV232-TPH3



1S2835 1S2836



SEL4410E-D SLP281C-50 TLG123A TLY123



SECTION 7 EXPLODED VIEWS

NOTE:

· Items with no part number and no description are not stocked because they are seldom required for routine service.

- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

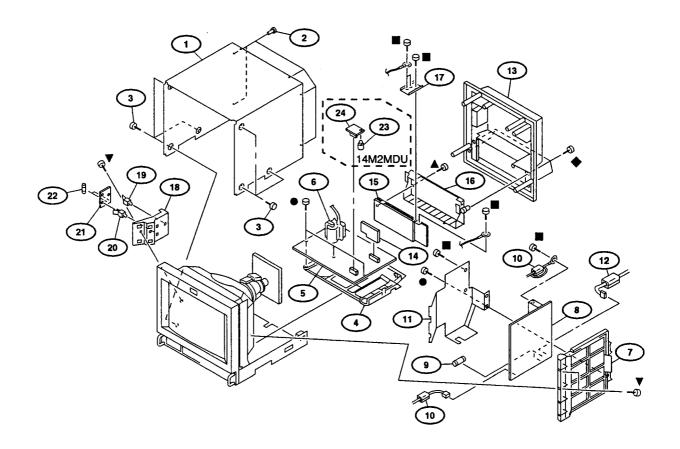
The components identified by shading and mark A are critical for safety. Replace only with part number

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS [14M2MDU/E/A]

+BVTP 3X12 • : 7-685-648-79 **:** 7-682-661-01 +PS 4X8 +BVTP 3X8 **▲**: 7-685-646-79 +BVTP 4X16 : 7-685-663-79 **+BVTT 4X8 ▼**: 7-685-881-09



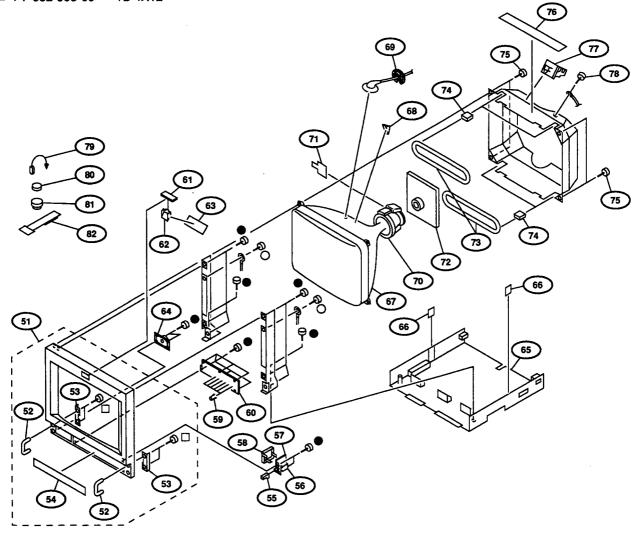
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO	PART NO.	DESCRIPTION	REMARK
	4-391-825-01	COVER ASSY, TOP RIVET, NYLON			* A-1304-141-A	COVER, REAR M BOARD, COMPLETE	
4 *		SCREW (OS), CASE, CLAW BRACKET, MAIN A BOARD, COMPLETE		15 16		TERMINAL BOARD ASSY, I/O PANEL, CONNECTOR	
	1-453-233-11 4-043-689-01	TRANSFORMER ASSY, FLYBAU BRACKET, G	CK	18	* 4-391-842-06		
8 * 9 <u>A</u>	A-1316-349-A I-576-231-11	G BOARD, COMPLETE FUSE (H.B.C.) 4A/250V		20	* 3-703-141-00	HOLDER, PWB	
10 **	1-543-827-11	CLAMP, SLEEVE FERRITE SHIELD, G PWB		22 &	1-532-742-11	GA BOARD, COMPLETE FUSE, GLASS TUBE 1,6A/125\ SPACER, PC BOARD SPACE (1	
12	1-543-653-11	CORE ASSY, BEAD(DIVISION T	TYPE)			S BOARD, COMPLETE (14M2)	

7-2. PICTURE TUBE [14M2MDU/E/A]

● : 7-685-648-79 ○ : 7-682-648-09 □ : 7-682-563-09 +BVTP 3X12 +PS 3X8 +B 4X12

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque <u>A</u> sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51 52	X-4035-199-1 4-052-200-11		52-54	67 <u>∧</u> 68		PICTURE TUBE 14MG(D. SPACER, DY	ARK) (M34KBEHX)
53		REINFORCEMENT, HANDLE				HOLDER, HV CABLE	
53 54						DEFLECTION YOKE Y14	MGAT
55	4-043-683-01	BUTTOM, POWER SWITCH		***************************************			
		·				PLATE ASSY, CORRECT	ION, TLH
56		SWITCH, PUSH (A.C. POWER)		72 *		C BOARD, COMPLETE	
57		J BOARD, COMPLETE				COIL, DEMAGNETIZATI	ON
58	4-043-681-01					HOLDER, WIRE	
59	4-043-802-11	KNOB, CONTROL		75	4-365-808-01	SCREW (5), TAPPING	
60	* A-1372-410-A	H BOARD, COMPLETE					
						CLOTH, PROTECTION	
61		X BOARD, COMPLETE				HOLDER, LEAD	
62		REFLECTOR, LED				SCREW (M4) (EXT TOOT	H WASHER)
63		CUSHION, TALLY			4-308-870-00		
64	1-544-063-12	SPEAKER		80	1-452-032-00	MAGNET, DISK; 10mmø	
65	X-4031-711-1	CABINET ASSY, BOTTOM					
				81		MAGNET, ROTATABLE	
66	4-042-608-01	NUT, PLATE		82	4-051-736-21	PIECE A(90), CONV. COR	RECT

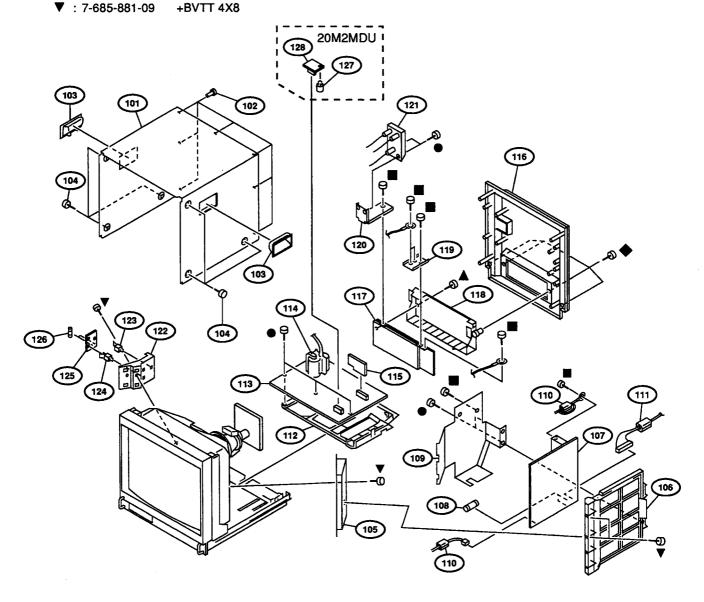
7-3. CHASSIS [20M2MDU/E/A]

● : 7-685-648-79 +BVTP 3X12 ■ : 7-682-661-01 +PS 4X8 ▲ : 7-685-646-79 +BVTP 3X8

◆ : 7-685-663-79 +BVTP 4X16

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

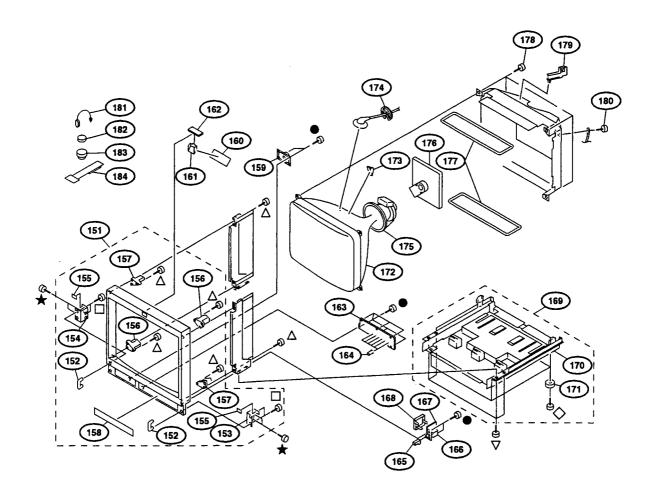


REF. N	О.	PART NO.	DESCRIPTION	REMARK	REF. NO	. PART NO.	DESCRIPTION	REMARK
101		-057-973-41	COVER, TOP		116	4-043-677-11	COVER, REAR	
101			RIVET, NYLON		117		TERMINAL BOARD AS	ev I/O
		1-043-825-01			117		PANEL, CONNECTOR	551,40
103								
104			SCREW (OS), CASE, CLAW				TERMINAL, EARTH	TIN ED
105	2	K-4391-825-1	HOOK ASSY, F		120	4-057-971-01	BRACKET, FOCUS VO	LUME
					l			
106			BRACKET, G				RESISTOR ASSY, HIGH	HVULTAGE
107			G BOARD, COMPLETE			*4-391-842-06		
			FUSE (H.B.C.) 4A/250V				HOLDER, PC BOARD	
109		1-062-488-01					HOLDER, PWB	
110	1	1-543-827-11	CLAMP, SLEEVE FERRITE		125	* A-1316-350-A	GA BOARD, COMPLET	E
111			CORE ASSY, BEAD(DIVISION OF THE PROPERTY OF TH	ON TYPE)			FUSE, GLASS TUBE 1.6	
112			BRACKET, MAIN				SPACER, PC BOARD SI	
113			A BOARD, COMPLETE		128	* A-1390-779-A	S BOARD, COMPLETE	(20M2MDU)
114			TRANSFORMER ASSY, FL)	/BACK				
115	* /	A-1304-141-A	M BOARD, COMPLETE		1			

7-4. PICTURE TUBE [20M2MDU/E/A]

● : 7-685-648-79 +BVTP 3X12 △ : 7-685-663-71 +BVTP 4X16 □ : 7-682-563-09 +B 4X12 ★ : 7-685-883-09 +BVTT 4X12 ◇ : 7-685-664-79 +P 4X20 ∇ : 7-685-661-14 +BVTP 4X12 The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ∆ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	X-4035-198-1	BEZEL ASSY	152-158	168	4-043-681-01	COVER, AC SWITCH	
152	4-052-200-11	HANDLE, PROTECTOR		169 *			170,171
153	* 4-043-670-01	REINFORCEMENT (R), HANDLE			* 4-043-674-03		
154	* 4-043-669-01	REINFORCEMENT (L), HANDLE				*,,	
155	* 4-043-797-01			171	4-901-947-01	LEG	
				172 4	8-736-135-05	PICTURE TUBE 20FZ5(DARK	(M49JGH11X)
156	* 4-043-672-01	BRACKET (A), PICTURE TUBE		173	3-703-961-01		
157	* 4-043-673-01	BRACKET (B), PICTURE TUBE		174	3-704-372-01	HOLDER, HV CABLE	
158	* 4-057-975-41	LABEL, CONTROL		175 ₫		DEFLECTION YOKE (Y20FZA	1
159	1-544-063-12	SPEAKER			***************************************		***************************************
160	4-044-606-01	CUSHION, TALLY		176 *	* A-1331-763-A	C BOARD, COMPLETE	
		•		177 △	1-426-505-11	COIL DEMAGNETIZATION	
161	* 4-043-671-01	REFLECTOR, LED		178	4-365-808-01		
162	* A-1390-778-A	X BOARD, COMPLETE			* 4-387-284-01	HOLDER, LEAD	
163		H BOARD, COMPLETE		180	4-389-025-01	SCREW (M4) (EXT TOOTH W.	ASHER)
164		KNOB, CONTROL		1			
165	4-043-683-01			181	4-308-870-00	CLIP, LEAD WIRE	
		•		182	1-452-032-00	MAGNET, DISK; 10mmø	
166	Ф 1-692-921-11	SWITCH PUSH (A.C. POWER)		183	1-452-094-00	MAGNET, ROTATABLE DISK	: 15mmø
167	* A-1388-204-A	J BOARD, COMPLETE		184	4-051-736-21	PIECE A(90), CONV. CORREC	Ť .

SECTION 8 ELECTRICAL PARTS LIST



NOTE:

Les composants identifies par une trame et une marque \(\Delta\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

- The components identified by
 in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

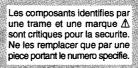
When indicating parts by reference number, please include the board name.

- CAPACITORS PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

DECISTORS

- · All resistors are in ohms
- F : nonflammable

REF. NO.	PART NO.	DESCRIPTION		EMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
101 · 110 ·	*************						***************************************			
	* A-1298-296-A	A BOARD, COMPLETE (14inch m	odel)	C174 C200	1-163-243-11 1-126-963-11	CERAMIC CHIP ELECT	47PF 4.7 MF	5% 20%	50V 50V
	* 4-043-994-01 * 4-058-301-01 4-382-854-11	SOCKET, IC PLATE (CF), SHIELD RING, SHORT SCREW (M3X10), P, SW (+ SCREW +PSW 3X8)		C201 C202 C203 C204 C205	1-137-353-11 1-163-017-00 1-126-963-11 1-126-964-11 1-126-767-11	CERAMIC CHIP ELECT ELECT	0.047MF 0.0047MF 4.7MF 10MF 1000MF	10% 10% 20% 20% 20%	100V 50V 50V 50V 16V
	7-685-663-79	SCREW +BVTP 4X16 TYPE <band filter="" pass=""></band>	E2 IT-3		C206 C207 C208 C209	1-128-526-11 1-104-665-11 1-126-964-11 1-126-963-11	ELECT ELECT	100MF 100MF 10MF 4.7MF	20% 20% 20% 20%	25V 25V 50V 50V
DDE 400	1 006 060 11				C304		CERAMIC CHIP		10%	25V
BPF400	1-230-303-11	FILTER, BAND PASS <capacitor></capacitor>			C305 C306 C310	1-163-031-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF	5% 10%	50V 50V 25V 25V
C105 C106		CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 5%	50V 50V	C311 C312	1-126-961-11	CERAMIC CHIP ELECT	2.2MF	10% 20%	50V
C114 C116 C117	1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	370	50V 50V 50V	C313 C314 C315 C316	1-163-249-11 1-126-964-11 1-104-664-11	ELECT	82PF 10MF 47MF	5% 20% 20%	50V 50V 50V 25V
C118 C119	1-165-319-11	CERAMIC CHIP 220PF CERAMIC CHIP 0.1MF	5%	50V 50V	C318	1-126-964-11		10MF	20%	50V
C121 C123 C124	1-165-319-11	CERAMIC CHIP 27PF CERAMIC CHIP 0.1MF CERAMIC CHIP 100PF	5% 5%	50V 50V 50V	C325 C328 C340 C343	1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01 MF	20%	50V 50V 50V 50V
C132 C133		CERAMIC CHIP 0.001MF CERAMIC CHIP 100PF	5% 5%	50V 50V	C349		CERAMIC CHIP		5%	50V
C134 C135 C136	1-163-251-11 1-163-251-11	CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 5% 5%	50V 50V 50V	C350 C352 C353 C354	1-163-031-11 1-165-319-11 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF 150PF	5% 5%	50V 50V 50V 50V
C140 C141 C142	1-164-161-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0022MF CERAMIC CHIP 220PF	10% 10% 5%	25V 50V 50V	C355 C356	1-126-960-11 1-126-963-11		1MF 4.7MF	20% 20%	50V 50V
C142 C143 C144	1-165-319-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	370	50V 50V	C357 C358	1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF		50V 50V
C145 C154		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.022MF	10%	50V 50V	C359 C360	1-104-664-11 1-164-232-11	CERAMIC CHIP	47MF 0.01MF	20% 10%	25V 50V
C155 C156 C157	1-163-019-00	CERAMIC CHIP 0.015MF CERAMIC CHIP 0.0068MF CERAMIC CHIP 0.0068MF	10% 10% 10%	50V 50V 50V	C361 C362 C363 C364	1-163-031-11 1-163-099-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 18PF	5%	50V 50V 50V 50V
C158 C159	1-164-344-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.068MF	10% 10%	25V 25V	C365	1-106-343-00		0.001MF	10%	100V
C161 C162 C164		ELECT 47MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	20% 5%	25V 50V 50V	C366 C367 C368 C369	1-163-031-11 1-124-261-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 10MF	20% 10%	50V 50V 50V 25V
C165 C166	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10%	50V 25V	C370	1-104-664-11		47MF	20%	25V
C167 C168 C169	1-126-925-11 1-126-925-11 1-164-232-11		20% 20% 10%	10V 10V 50V	C371 C372 C373	1-163-141-00	CERAMIC CHIP CERAMIC CHIP	0.001MF	20% 5%	25V 50V 50V
C171 C172		CERAMIC CHIP 100PF CERAMIC CHIP 180PF	5% 5%	50V 50V	C374 C375	1-126-960-11 1-163-259-91	CERAMIC CHIP	1MF 220PF	20% 5%	50V 50V
C172		CERAMIC CHIP 180PF	5%	50V	C376	1-126-959-11	ELECT	0.47 MF	20%	50V

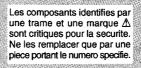




						202					
REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C377 C378		CERAMIC CHIP CERAMIC CHIP		10% 10%	25V 25V	C462 C463		CERAMIC CHIP CERAMIC CHIP		10% 10%	25V 25V
C379		CERAMIC CHIP	0.01MF	1070	50V	C464		CERAMIC CHIP		10%	25V 25V
C380	1-126-767-11	ELECT	1000MF	20%	16V	C465 C466		CERAMIC CHIP CERAMIC CHIP		5%	50V
C381		CERAMIC CHIP			50V	1				5%	50V
C382 C383	1-163-243-11 1-104-664-11	CERAMIC CHIP	47PF 47MF	5% 20%	50V 25V	C467 C469		CERAMIC CHIP		5%	50V
C384		CERAMIC CHIP		5%	50V	C409		CERAMIC CHIP CERAMIC CHIP		10% 5%	50V 50V
C385	1-104-664-11	ELECT	47MF	20%	25V	C471	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C386	1-124-261-00	ELECT	10MF	20%	50V	C472	1-163-031-11	CERAMIC CHIP	U.UIMF		50V
C387		CERAMIC CHIP		5%	50V	C473		CERAMIC CHIP			50V
C388 C390	1-124-261-00	CERAMIC CHIP	10MF 47PF	20% 5%	50V 50V	C475 C476		CERAMIC CHIP CERAMIC CHIP			50V 50V
C391	1-104-664-11		47MF	20%	25 V	C477	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C392	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V	C478	1-126-964-11	ELECT	10MF	20%	50V
C393	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V	C479		CERAMIC CHIP		5%	50V
C394 C395	1-104-664-11	ELECT CERAMIC CHIP	47MF	20% 5%	25V 50V	C483 C484		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V
C396		CERAMIC CHIP		10%	25V	C485		CERAMIC CHIP		5%	50V 50V
C397	1-104-664-11	ELECT	47MF	20%	25V	C486	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C398	1-104-664-11		47MF	20%	25 V	C487	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C399	1-104-664-11		47MF	20%	25V	C490		CERAMIC CHIP			25V
C400 C401		CERAMIC CHIP CERAMIC CHIP		10%	25V 16V	C491 C492		CERAMIC CHIP CERAMIC CHIP			25V 25V
C407				200	0517	C493		CERAMIC CHIP		10%	50V
C407 C409	1-104-664-11 1-163-031-11	CERAMIC CHIP	47MF 0.01MF	20%	25V 50V	C494	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C411		CERAMIC CHIP		10%	25V	C495	1-126-964-11	ELECT	10MF	20%	50V
C414 C415	1-163-031-11 1-126-964-11	CERAMIC CHIP	0.01MF 10MF	20%	50V 50V	C496 C497		CERAMIC CHIP CERAMIC CHIP		5% 10%	50V 50V
						C498	1-126-961-11		2.2MF	20%	50V
C416 C417		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 50V	C499	1-163-031-11	CERAMIC CHIP	0.01ME		50V
C418	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	C500		CERAMIC CHIP		10%	25V
C419 C420	1-126-925-11	ELECT CERAMIC CHIP	470MF	20% 10%	10V 25V	C501 C502		CERAMIC CHIP CERAMIC CHIP			50V
				10 %		C502		CERAMIC CHIP		5% 5%	50V 50V
C421 C422	1-164-222-11 1-126-960-11	CERAMIC CHIP	0.22MF 1MF	20%	25V 50V	C504	1-136-495-11	ETI M	0.068MF	5%	E037
C423		CERAMIC CHIP		10%	25V	C505		CERAMIC CHIP		5%	50V 50V
C424		CERAMIC CHIP		10%	25V	C506	1-126-959-11	ELECT	0.47MF	20%	50V
C426	1-103-243-11	CERAMIC CHIP	4/PF	5%	50V	C507 C508	1-128-526-11 1-130-497-00		100MF 0.15MF	20% 5%	25V 50V
C427		CERAMIC CHIP			50V	•					
C429 C430	1-103-031-11	CERAMIC CHIP ELECT	330MF	20%	50V 16V	C509 C511	1-128-566-11 1-107-368-11		470MF 0.047MF	20% 10%	100V 200V
C431	1-165-319-11	CERAMIC CHIP			50V	C512	1-126-959-11	ELECT	0.47MF	20%	50V
C433	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C513	1-124-261-00 1-130-338-91	FILM	10MF	20%	50V 630V
C434		CERAMIC CHIP		10%	25V						
C435 C437		CERAMIC CHIP CERAMIC CHIP		0.25PF 10%	50V 25V	C515 C516	1-163-809-11 1-102-030-00	CERAMIC CHIP	0.047MF 330PF	10% 10%	25V 500V
C439		CERAMIC CHIP		10%	25V	C517		CERAMIC CHIP		10%	50V
C440	1-164-004-11	CERAMIC CHIP	0.1 MF	10%	25V	C518 C519	1-107-947-11	ELECT CERAMIC CHIP	220MF	20%	160V
C441	1-126-962-11		3.3MF	20%	50V	i ! !	1-103-017-00	CERAMIC CHIP	0.0047WIF	1070	50V
C442 C443		CERAMIC CHIP		10% 5%	25V 50V	C520		CERAMIC CHIP		5%	50V
C444		CERAMIC CHIP		370	50V	C521 C522	1-162-114-00 1-126-768-11		0.0047MF 2200MF	20%	2KV 16V
C446	1-163-089-00	CERAMIC CHIP	6PF	0.25PF	50V	C523	1-107-902-11	ELECT	1MF	20%	50V
C447	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C525 A	1-136-079-11	FILM	0.01MF	3%	2KV
C448		CERAMIC CHIP		5%	50V		1-162-116-91		680PF	10%	2KV
C449 C450		CERAMIC CHIP CERAMIC CHIP		0.5PF 10%	50V 25V	C527 C529	1-162-134-11 1-107-901-11		470PF 0.47MF	10% 20%	2KV 50V
C451		CERAMIC CHIP		10%	25V	C530	1-104-666-11	ELECT	220MF	20%	25V
C452	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C531	1-104-664-11	ELECT	47MF	20%	25V
C453	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C532		CERAMIC CHIP			50V
C454 C455		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	C533 C534	1-102-212-00 1-107-662-11		820PF 22MF	10% 20%	500V 250V
C456		CERAMIC CHIP		0.25PF		C537	1-107-002-11		470MF	20%	50V
C457	1_ 164_004_11	CERAMIC CHIP	0 IMF	10%	25V	C538	1-137-150-11	MYLAR	0.01MF	10%	100V
C458		CERAMIC CHIP		10% 5%	50V	C539	1-130-480-00	FILM	0.0056MF	5%	50V
C459 C460		CERAMIC CHIP CERAMIC CHIP		10%	50V 25V	C540	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C461		CERAMIC CHIP		5%	50V	C541 C542	1-107-905-11 1-136-481-11		4.7MF 0.0022MF	20% 10%	50V 100V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		<u>F</u>	REMARK
C543	1-136-481-11		0.0022MF		100V	C1321 C1322	1-104-664-11 1-126-934-11	ELECT	47MF 220MF	20% 20%	25V 16V
C544 C545 C546 C547 C548	1-163-251-11 1-102-212-00	CERAMIC CERAMIC CHIP CERAMIC CHIP CERAMIC		10% 10% 5% 5% 10%	100V 500V 50V 50V 500V	C1323 C1324 C1325 C1326 C1327	1-163-031-11 1-163-031-11 1-104-664-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 0.01MF 47MF	20%	50V 50V 50V 25V 50V
C549 C550 C551 C552 C554	1-107-906-11 1-107-905-11 1-106-375-12 1-107-889-11 1-130-736-11	ELECT MYLAR ELECT	10MF 4.7MF 0.022MF 220MF 0.01MF	20% 20% 10% 20% 5%	50V 50V 100V 25V 50V	C1328 C1329 C1330 C1331 C1332	1-163-031-11 1-126-964-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	0.01MF 10MF	20% 20% 20%	50V 50V 50V 25V 25V
C555 C556 C557 C558 C559	1-126-964-11 1-126-964-11 1-106-381-12 1-126-960-11 1-136-173-00	ELECT MYLAR ELECT	10MF 10MF 0.039MF 1MF 0.47MF	20% 20% 10% 20% 5%	50V 50V 100V 50V 50V	C1333 C1334 C1335 C1336	1-104-664-11 1-163-227-11 1-104-664-11 1-104-664-11	ELECT CERAMIC CHIP ELECT ELECT	47MF 10PF 47MF 47MF	20% 0.5PF 20% 20%	25V 50V 25V 25V
C561 C564 C565 C566 C567	1-136-159-00 1-126-964-11 1-126-960-11 1-137-150-11 1-136-499-11	ELECT ELECT MYLAR	0.033MF 10MF 1MF 0.01MF 0.047MF	5% 20% 20% 10% 5%	50V 50V 50V 100V 50V	C1338 C1339 C1340 C1341 C1342 C1343	1-163-031-11 1-163-031-11 1-163-275-11 1-163-105-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF 0.001MF 33PF	5% 5% 5%	50V 50V 50V 50V 50V 50V
C568 C569 C570 C571 C572	1-126-767-11	TANTALUM ELECT CERAMIC CHIP	1MF 4.7MF 1000MF 0.012MF 4.7MF	20% 10% 20% 10% 0	50V 25V 16V 50V 160V	C1344 C1345 C1346 C1347 C1348	1-163-083-00 1-124-261-00 1-124-589-11 1-163-031-11	CERAMIC CHIP ELECT	1PF 10MF 47MF 0.01MF	0.25PF 20% 20% 5%	
C573 C576 C577 C578 C579	1-136-173-00 1-102-244-00 1-107-906-11 1-136-112-00 1-107-910-11	CERAMIC ELECT FILM	0.47MF 220PF 10MF 1.4MF 100MF	5% 10% 20% 5% 20%	50V 500V 50V 200V 50V	C1349 C1350 C1351 C1352 C1353	1-164-232-11 1-126-160-11 1-163-023-00 1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF 1MF 0.015MF 0.01MF	5% 10% 20% 10%	50V 50V 50V 50V 50V
C580 C581 C582 C583 C584	1-136-756-11 1-126-963-11 1-102-002-00 1-136-828-11 1-107-949-11	ELECT CERAMIC FILM	0.24MF 4.7MF 680PF 1.8MF 2.2MF	5% 20% 10% 5% 20%	200V 50V 500V 200V 160V	C1354 C1355 C1356 C1357 C1358	1-163-259-91		220PF	5% 5% 5% 20% 20%	50V 50V 50V 16V 16V
C585 C586 C587 C588 C589	1-107-960-11 1-126-942-61 1-102-030-00 1-107-906-11 1-102-030-00	ELECT CERAMIC ELECT	4.7MF 1000MF 330PF 10MF 330PF	20% 20% 10% 20% 10%	250V 25V 500V 50V 500V	C1359 C1360 C1362 C1363 C1364	1-163-263-11 1-164-161-11 1-163-249-11 1-163-235-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	330PF 0.0022MF 82PF 22PF	5%	50V 50V 50V 50V 50V
C590 C591 C592 C593 C594		FILM	4.7MF 0.1MF	20% 10% 20%	50V 200V 160V 50V 50V	C1365 C1366 C1367 C1372	1-163-227-11 1-104-664-11 1-104-664-11 1-104-664-11	CERAMIC CHIP ELECT ELECT ELECT	10PF 47MF 47MF 47MF	0.5PF 20% 20% 20%	50V 25V 25V 25V
C595 C596 C597 C598 C599		ELECT CERAMIC CHIP CERAMIC CHIP		20% 20% 20%	25V 25V 16V 16V 50V	C1373 C1374 C1375 C1378 C1391	1-136-165-00	ELECT CERAMIC CHIP FILM	0.1MF	20% 20% 20% 5% 5%	25V 25V 50V 50V 50V
C1300 C1302 C1304 C1305 C1307	1-104-664-11 1-104-664-11	CERAMIC CHIP ELECT	47MF 47MF	20% 5% 20% 20%	25V 50V 25V 25V 50V	C1394 C1395 C1396 C1397 C1398		ELECT CERAMIC CHIP CERAMIC CHIP		20% 20% 5% 20%	50V 50V 50V 50V 16V
C1308 C1309 C1311 C1312 C1313	1-104-664-11 1-163-031-11	CERAMIC CHIP	47MF 0.01MF	20% 5% 20%	10V 50V 25V 50V 50V	C1399 C1400 C1401 C1402 C1403	1-136-173-00	CERAMIC CHIP FILM CERAMIC CHIP	0.47MF	20% 5% 5%	25V 50V 50V 50V 50V
C1314 C1315 C1316 C1317 C1318	1-104-664-11 1-104-664-11 1-163-031-11 1-104-664-11 1-104-664-11	ELECT CERAMIC CHIP ELECT	47MF 47MF 0.01MF 47MF 47MF	20% 20% 20% 20%	25V 25V 50V 25V 25V	C1404 C1408 C1500 C1501 C1505	1-164-299-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.22MF	10% 5% 20% 20% 5%	25V 50V 16V 10V 50V
C1319 C1320	1-124-234-00 1-104-664-11	ELECT	22MF 47MF	20% 20% 20%	16V 25V	C1505 C1506 C1507	1-104-661-91		330MF	20%	16V 50V



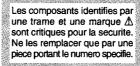


REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1508 C1509 C1510	1-126-963-11 1-126-964-11 1-126-963-11	ELECT	4.7MF 10MF 4.7MF	20% 20% 20%	50V 50V 50V	D304 D305		DIODE 1SS184 DIODE 1SS226	
C1511 C1512		CERAMIC CHIP		10% 20%	50V 50V	D307 D308 D309	8-719-404-49	DIODE MAIII DIODE MAIII DIODE MAIII	
C1513 C1514 C1515	1-130-477-00 1-126-964-11	ELECT	0.0033MF 10MF	5% 5% 20%	50V 50V 50V	D310 D311	8-719-104-34	DIODE 1S2836 DIODE 1SV230TPH3	
C1516 C1517	1-128-526-11		100MF	10% 20%	50V 10V	D313 D314 D315	8-719-404-49	DIODE 1SS184 DIODE MA111 DIODE MA111	
C1518 C1521 C1530	1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF	20% 5%	16V 50V 50V	D317 D320	8-719-404-49	DIODE MA111 DIODE MA111	
C1538 C1539	1-163-119-00	CERAMIC CHIP CERAMIC CHIP	120PF	5% 5% 5%	50V 50V 50V	D322 D323 D324	8-719-404-49 8-719-404-49	DIODE MA111 DIODE MA111 DIODE 188184	
C1540 C1541 C1542 C2501	1-163-121-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	150PF 150PF	5% 5% 10%	50V 50V 50V	D325 D326 D327	8-719-404-49	DIODE 1SS184 DIODE MA111 DIODE 1S2836	
C2502	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V 630V	D332 D333 D335	8-719-404-49 8-719-404-49	DIODE MA111 DIODE MA111 DIODE MA111	
***************************************						D337		DIODE MA111	
CN101 CN102 CN104	* 1-564-514-11 * 1-564-506-11	CONNECTOR, E PLUG, CONNECTOR, E PLUG, CONNECTOR, E	OARD TO TOR 11P TOR 3P			D338 D339 D344 D345 D346	8-719-404-49 8-719-801-78 8-719-104-34	DIODE MA111 DIODE MA111 DIODE 1SS184 DIODE 1S2836 DIODE 1S2836	
CN105 CN201		CONNECTOR, B PLUG, CONNEC		BUAR	ID 12P	D347 D360	8-719-104-34 1-216-295-91	DIODE 1S2836 SHORT 0	
CN301 CN302 CN305 CN306	* 1-564-510-11 1-779-070-21	PLUG, CONNEC PLUG, CONNECTO PIN, CONNECTO PLUG, CONNEC	TOR 7P OR 12P			D361 D362 D363		SHORT 0 DIODE RD10SB1 DIODE RD10SB1	
CN401	* 1-564-511-11	PLUG, CONNEC	TOR 8P			D364 D365 D381	8-719-404-49	DIODE 1S2836 DIODE MA111 DIODE MA111	
CN501 CN502 CN503	* 1-580-798-11 * 1-573-964-11 * 1-573-964-11	CONNECTOR PI PIN, CONNECTO PIN, CONNECTO	IN (DY) 6P OR (PC BO OR (PC BO			D401 D404	8-719-404-49 8-719-800-76	DIODE MA111 DIODE 1SS226	
CN504 CN505		PLUG, CONNEC				D405 D406 D407	8-719-404-49	DIODE 1SS184 DIODE MA111 DIODE MA111	
CN507	1-695-915-11	TAB (CONTACT	")			D408 D410		DIODE MA111 DIODE MA111	
CP300	1 226 266 11	<composition module,="" td="" trai<=""><td></td><td>BLOC</td><td>K></td><td>D411 D414 D415</td><td>8-719-801-78</td><td>DIODE MA111 DIODE 1SS184 DIODE 1SS184</td><td></td></composition>		BLOC	K>	D411 D414 D415	8-719-801-78	DIODE MA111 DIODE 1SS184 DIODE 1SS184	
CP301 CP302	1-236-365-11 1-808-654-21	MODULE, TRAI	•	D 4\		D413 D416 D417	8-719-801-78	DIODE 1SS184 DIODE 1SS184	
CP303	1-400-102-01	FILTER BLOCK	, COM (Cr	D- 4)		D418 D421		DIODE 1SS184 DIODE MA111	
D100	9 710 404 40	<diode> DIODE MA111</diode>				D422 D423 D424	8-719-404-49 8-719-800-76	DIODE MA111 DIODE ISS226 DIODE MA111	
D100 D101 D102	8-719-800-76	DIODE 1SS226 DIODE 1SS226				D424		DIODE ISS226	
D103 D104		DIODE 1SV2307 DIODE 1SS226	гРН3			D427 D500 D501	8-719-404-49 8-719-404-49	DIODE MA111 DIODE MA111 DIODE DTZ5.6B	
D105 D107	8-719-800-76	DIODE 1SS226 DIODE 1SS226				D502	8-719-979-80	DIODE UF5406	
D108 D109 D111	8-719-801-78	DIODE 1S2836 DIODE 1SS184 DIODE DTZ6.2				D503 D504 D505	8-719-901-83	DIODE MA111 DIODE 1SS83 DIODE RGP02-17EL-6433	
D114 D115		DIODE MA111 DIODE DTZ6.2				D506 D507		DIODE ERD07-15 DIODE 1SS226	
D116 D117	8-719-404-49	DIODE D120.2 DIODE MA111 DIODE 1S2076				D508 D510		DIODE 1SS226 DIODE EL1Z	
D200	8-719-977-46	DIODE DTZ13C				D512 D513	8-719-979-80 8-719-404-49	DIODE UF5406 DIODE MA111	
D300 D301 D303	8-719-404-49	DIODE 1SV232- DIODE MA111 DIODE DTZ6.2	11113			D514 D515		DIODE ERC38-06 DIODE ERC38-06	
						i			



REF. NO. PART NO. REMARK DESCRIPTION REF. NO. PART NO. DESCRIPTION REMARK D516 8-719-404-49 DIODE MA111 IC315 8-759-932-67 IC BU4053BCF 8-759-432-78 IC MM1111XFBE 8-759-009-51 IC MC14538BF 8-759-009-67 IC MC14584BF 8-719-404-49 DIODE MA111 8-719-404-49 DIODE MA111 IC316 D517 D518 IC317 D519 8-719-404-49 DIODE MA111 IC318 IC319 8-759-008-67 IC MC14066BF 8-719-801-78 DIODE 1SS184 D520 8-719-404-49 DIODE MA111 8-719-977-05 DIODE MA111 8-719-404-49 DIODE MA111 8-719-200-02 DIODE 10E-2 8-759-358-46 IC MM1114XFBE 8-759-446-66 IC MM1113XFBE 8-759-446-66 IC MM1113XFBE 8-759-446-66 IC MM1113XFBE 8-759-446-66 IC MM1113XFBE D521 IC320 IC321 IC322 D522 D523 IC323 D524 IC324 D525 8-719-200-02 DIODE 10E-2 8-759-446-66 IC MM1113XFBE 8-759-060-00 IC BA10324AF 8-759-008-67 IC MC14066BF 8-759-909-71 IC BA4558F 8-752-053-21 IC CXA1211M 8-719-404-49 DIODE MA111 8-719-200-02 DIODE 10E-2 D526 IC325 D527 IC326 D528 8-719-300-76 DIODE RH-1A IC327 D529 8-719-200-02 DIODE 10E-2 IC350 IC402 8-719-300-76 DIODE RH-1A 8-719-977-32 DIODE DTZ11B 8-719-800-76 DIODE 1SS226 8-719-302-43 DIODE EL1Z D530 IC404 8-752-067-05 IC CXA1739S D531 8-759-932-67 IC BU4053BCF 8-759-008-67 IC MC14066BF 8-759-510-73 IC BA10393F-E2 D532 IC405 D533 IC407 D534 8-719-404-49 DIODE MA111 IC408 8-759-060-00 IC BA10324AF IC409 8-719-404-49 DIODE MA111 8-719-800-76 DIODE 1SS226 8-719-800-76 DIODE 1SS226 8-719-404-49 DIODE MA111 8-719-404-49 DIODE MA111 D535 IC410 8-759-009-06 IC MC14052BF D536 8-759-008-92 IC MC14024BF 8-759-932-67 IC BU4053BCF 8-759-932-67 IC BU4053BCF IC411 D538 IC412 D539 IC413 D540 IC500 8-749-010-07 IC H8D7248 8-719-801-78 DIODE 1SS184 8-719-404-49 DIODE MA111 D541 8-759-009-51 IC MC14538BF 8-759-009-51 IC MC14538BF 8-752-053-21 IC CXA1211M 8-759-088-08 IC uPC7812AHF 8-759-009-51 IC MC14538BF IC502 D543 IC503 IC503 IC504 IC505 <DELAY LINE> IC506 DL300 1-415-633-11 DELAY LINE, Y DL301 1-415-632-11 DELAY LINE, Y IC507 8-759-100-60 IC uPC1377C DL401 1-409-547-11 DELAY LINE IC508 IC509 IC510 8-752-053-21 IC CXA1211M 8-759-998-98 IC LM358D 8-759-009-51 IC MC14538BF 8-759-009-51 IC MC14538BF <FERRITE BEAD> IC513 1-410-396-41 FERRITE FB501 0.45UH <CHIP CONDUCTOR> <FILTER> JR302 1-216-295-91 SHORT 1-216-295-91 SHORT JR307 0 1-236-547-11 TRAP, LC 1-216-295-91 SHORT FL300 JR310 0 1-236-364-11 FILTER, BAND PASS FL401 <COIL> <IC> 1-408-609-41 INDUCTOR 33UH L101 IC101 *8-759-478-14 IC uPD78P018FYCW-MD1 L102 1-408-611-31 INDUCTOR 47UH 8-759-354-28 IC ST24C02FM6TR 8-759-008-48 IC MC74HC86F 8-759-262-59 IC uPD6451AGT-632-E2 8-759-196-70 IC M62358FP-E1 1-408-619-31 INDUCTOR 220UH 1-410-482-31 INDUCTOR 100UH IC102 L104 IC103 L105 1-410-478-11 INDUCTOR 47UH IC104 L300 IC105 L305 1-410-196-11 INDUCTOR CHIP 2.2UH IC106 8-759-196-70 IC M62358FP-E1 L308 1-410-466-41 INDUCTOR 4.7UH 8-759-196-70 IC M62358FP-E1 8-759-042-02 IC S-80743AL-A7-S 8-759-196-70 IC M62358FP-E1 L309 1-410-470-11 INDUCTOR 10UH IC107 IC108 L311 1-410-470-11 INDUCTOR 10UH IC109 L312 1-412-011-31 INDUCTOR CHIP 27UH IC110 8-759-196-70 IC M62358FP-E1 1-412-011-31 INDUCTOR CHIP 27UH L314 8-759-009-22 IC MC14094BF 8-759-354-27 IC ST24C01FM6TR 1-412-011-31 INDUCTOR CHIP 27UH 1-410-090-41 INDUCTOR 18mH IC111 L316 L317 IC112 IC200 IC302 8-759-420-04 IC AN5265 8-759-998-98 IC LM358D L319 1-408-615-31 INDUCTOR 100UH L320 1-410-682-31 INDUCTOR 470UH IC303 8-759-009-51 IC MC14538BF L401 1-410-478-11 INDUCTOR 47UH IC304 8-759-932-67 IC BU4053BCF L402 1-410-216-31 INDUCTOR CHIP 100UH 8-759-631-08 IC M51279FP 8-759-358-46 IC MM1114XFBE 8-759-008-67 IC MC14066BF 8-759-358-46 IC MM1114XFBE 1-410-216-31 INDUCTOR CHIP 100UH 1-410-216-31 INDUCTOR CHIP 100UH 1-408-613-31 INDUCTOR 68UH IC305 L403 L404 IC306 L405 IC307 IC309 L406 1-408-613-31 INDUCTOR 68UH 8-759-932-67 IC BU4053BCF 8-759-008-67 IC MC14066BF 8-759-358-46 IC MM1114XFBE 8-759-446-66 IC MM1113XFBE 8-759-446-66 IC MM1113XFBE 1-410-214-31 INDUCTOR CHIP 68UH IC310 L409 1-459-155-00 COIL (WITH CORE) 45UH 1-407-365-00 COIL,CHOKE IC311 L500 L501 IC312 IC313 L502 1-407-365-00 COIL, CHOKE

IC314





REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L503 L504		INDUCTOR 33mH INDUCTOR 18UH		Q345	8-729-422-29	TRANSISTOR 2SD601A-S	
L505 L507	1-410-671-31	INDUCTOR 47UH INDUCTOR 1mH		Q350 Q351		TRANSISTOR 2SB709A-R TRANSISTOR 2SD601A-S	
L508		INDUCTOR 27UH		Q352 Q353	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S	
L509 L511	1-459-105-21	COIL, DYNAMIC CONVERSION OF INDUCTOR OUH	CHOKE	Q354		TRANSISTOR 2SD601A-S	
L512 L513	1-412-447-11	COIL (WITH CORE) 45UH INDUCTOR 3.9mH		Q355 Q356	1-801-806-11	TRANSISTOR 2SD601A-S TRANSISTOR DTC144EKA-T146	
L514		COIL, DUST CORE		Q360 Q361	8-729-027-38	TRANSISTOR IMX1 TRANSISTOR DTA144EKA-T146	i
L515 L516 <u>/</u> L517	1-416-162-11	COIL, DUST CORE COIL, HORIZONTAL LINEARITY INDUCTOR 680UH	Y	Q362		TRANSISTOR 2SD601A-S	
LJ17	1-412-347-21	INDUCTOR 0800H		Q363 Q364 Q365	1-801-806-11	TRANSISTOR 2SD601A-S TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
		<neon lamp=""></neon>		Q366 Q367	8-729-422-37	TRANSISTOR DIC144ERA-1140 TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R	
NL500	1-519-526-11	LAMP, NEON		Q368		TRANSISTOR 2SB709A-R	
		<transistor></transistor>		Q369 Q372	8-729-027-38	TRANSISTOR DTA144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q101		TRANSISTOR DTC144EKA-T146		Q380 Q381		TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q104 Q105	8-729-027-38	TRANSISTOR IMX1 TRANSISTOR DTA144EKA-T146		Q382		TRANSISTOR DTC144EKA-T146	
Q107 Q108		TRANSISTOR DTA144EKA-T146 TRANSISTOR 2SD601A-S		Q383 Q384	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q110 Q112		TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q385 Q386		TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q113 Q114	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q401 Q402		TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S	
Q200		TRANSISTOR 2SD774-34		Q407 Q409	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R	
Q201 Q300	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q410		TRANSISTOR IMX1	
Q301 Q302	8-729-216-22	TRANSISTOR 2SD601A-S TRANSISTOR 2SA1162-G		Q412 Q414	8-729-422-37	TRANSISTOR 2SA1162-G TRANSISTOR 2SB709A-R	
Q303		TRANSISTOR 2SD601A-S		Q415 Q416	8-729-422-37	TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R	
Q305 Q306 Q307	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q417 Q418		TRANSISTOR 2SB709A-R	
Q308 Q309	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R	1	Q419 Q420	8-729-422-37	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R	
Q310		TRANSISTOR 2SB709A-R		Q421 Q422	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SC1623-L5L6	
Q311 Q312	8-729-422-29	TRANSISTOR 2SB709A-R TRANSISTOR 2SD601A-S	1	Q423	8-729-422-29	TRANSISTOR 2SD601A-S	
Q313 Q314		TRANSISTOR 2SB709A-R TRANSISTOR DTA144EKA-T146		Q424 Q425	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q315		TRANSISTOR 2SB709A-R	1 1 1 1	Q426 Q428		TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SB709A-R	
Q316 Q318 Q319	8-729-422-37	TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R		Q429		TRANSISTOR 2SB709A-R	
Q320		TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q430 Q431 Q432	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S	
Q321 Q322		TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q433		TRANSISTOR DTC144EKA-T146	
Q323 Q324	1-801-806-11 1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146		Q434 Q435		TRANSISTOR 2SD601A-S TRANSISTOR DTC144EKA-T146	
Q325		TRANSISTOR 2SD601A-S		Q436 Q437	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q326 Q327	8-729-422-37	TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R		Q442		TRANSISTOR 2SD601A-S	
Q328 Q329	8-729-141-53	TRANSISTOR 2SK94-X2X3X4 TRANSISTOR 2SK94-X2X3X4		Q443 Q444	8-729-422-29	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-S	
Q330 Q331		TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R		Q445 Q446 Q447	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q332 Q333	1-801-806-11	TRANSISTOR 2SB709A-R TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SD601A-S		Q447 Q448		TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146	
Q335 Q338	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SC1623-L5L6		Q449 Q500	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SB709A-R	
Q339		TRANSISTOR 2SB709A-R		Q501 Q502	8-729-821-87	TRANSISTOR 2SD1878-CA TRANSISTOR 2SC2688-LK	
Q341 Q342	8-729-920-39 8-729-920-39	TRANSISTOR IMT1US TRANSISTOR IMT1US		Q503		TRANSISTOR 2SD1210(LK)-MT2	
Q343	8-729-920-39	TRANSISTOR IMTIUS		Q505		TRANSISTOR 2SD601A-S	



REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION		·	REMARK
Q506 Q507 Q508	8-729-422-29 8-729-422-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SD601A-S	=	<u> </u>	R200 R201 R202 R203		METAL CHIP RES,CHIP FUSIBLE	30K 1K 10 470	0.50% 5% 5% 5%	1/10W 1/10W 1/4W F 1/2W
Q511 Q512 Q513 Q514 Q515	8-729-195-82 8-729-122-03 8-729-901-00	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR D TRANSISTOR 2	SC2958-L SA1220A-P)TC124EK			R204 R205 R206 R207	1-260-072-11 1-216-647-11 1-216-073-00 1-216-065-91	CARBON METAL CHIP RES,CHIP RES,CHIP	4.7 680 10K 4.7K	5% 0.50% 5% 5%	1/2W 1/10W 1/10W 1/10W
Q516 Q517 Q518 Q519	8-729-027-38 1-801-806-11	TRANSISTOR D TRANSISTOR D TRANSISTOR D TRANSISTOR D	TA144EKA TC144EKA	-T146 -T146		R208 R209 R210 R211	1-216-065-91 1-216-073-00 1-216-061-00 1-249-393-11	RES,CHIP RES,CHIP	4.7K 10K 3.3K 10	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W F
Q520 Q522 Q523	8-729-422-29 8-729-422-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SD601A-S SD601A-S			R302 R304 R307	1-216-025-91 1-216-025-91 1-216-115-00	RES,CHIP RES,CHIP	100 100 560K	5% 5% 5%	1/10W 1/10W 1/10W
Q524 Q525 Q533	8-729-422-37 1-801-806-11	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR D TRANSISTOR 2	SB709A-R PTC144EKA	-T146		R308 R311 R312 R313 R314	1-216-065-91 1-216-055-00 1-216-073-00 1-216-648-11 1-216-099-00	RES,CHIP RES,CHIP METAL CHIP	4.7K 1.8K 10K 750 120K	5% 5% 5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
Q535		TRANSISTOR 2				R315 R316	1-216-099-00 1-216-049-91	RES,CHIP	120K 1K	5% 5%	1/10W 1/10W
R101	1-216-025-91		100	5%	1/10W	R317 R318 R320	1-216-057-00 1-216-049-91 1-216-057-00	RES,CHIP	2.2K 1K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W
R102 R103 R104 R105	1-216-025-91 1-216-025-91 1-216-073-00 1-216-059-00	RES,CHIP RES,CHIP RES,CHIP	100 100 10K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R321 R322 R323 R324	1-216-051-00 1-216-035-00 1-216-109-00 1-216-101-00	RES,CHIP RES,CHIP RES,CHIP	1.2K 270 330K 150K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R106 R107 R108 R109 R110	1-216-065-91 1-216-065-91 1-216-065-91 1-216-065-91 1-216-073-00	RES,CHIP RES,CHIP RES,CHIP	4.7K 4.7K 4.7K 4.7K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R325 R326 R328 R329 R330	1-216-037-00 1-216-033-00 1-216-121-91 1-216-055-00 1-216-089-91	RES,CHIP RES,CHIP RES,CHIP	330 220 1M 1.8K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R113 R117 R119 R130 R132	1-216-085-00 1-216-073-00 1-216-073-00 1-216-099-00 1-216-065-91	RES,CHIP RES,CHIP RES,CHIP	33K 10K 10K 120K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R331 R332 R333 R334	1-216-093-00 1-216-097-91 1-216-097-91 1-216-093-00	RES,CHIP RES,CHIP RES,CHIP	100K 100K 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R134 R137 R140 R141	1-216-065-91 1-216-065-91 1-216-033-00 1-216-085-00	RES,CHIP RES,CHIP RES,CHIP	4.7K 4.7K 220 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R335 R336 R342 R345	1-216-083-00 1-216-065-91 1-216-065-91 1-216-063-91	RES,CHIP RES,CHIP	27K 4.7K 4.7K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R144 R149 R151	1-216-295-91 1-216-065-91 1-216-061-00	SHORT RES,CHIP	0 4.7K 3.3K	5% 5%	1/10W 1/10W	R346 R349 R350	1-216-057-00	RES,CHIP METAL CHIP	2.2K 62K 33K	5% 0.50%	1/10W 1/10W 1/10W
R154 R155 R157	1-216-065-91 1-216-083-00 1-216-065-91 1-216-295-91	RES,CHIP RES,CHIP RES,CHIP	4.7K 27K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W	R351 R354 R357 R366 R371	1-216-061-00 1-216-123-11 1-216-121-91 1-216-065-91 1-216-025-91	RES,CHIP RES,CHIP RES,CHIP	3.3K 1.2M 1M 4.7K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R159 R160 R162 R163	1-216-063-91 1-216-061-00 1-216-065-91 1-216-065-91	RES,CHIP RES,CHIP RES,CHIP	3.9K 3.3K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R372 R373 R374	1-216-073-00 1-216-645-11 1-216-647-11	RES,CHIP METAL CHIP METAL CHIP	10K 560 680	5% 0.50% 0.50%	1/10W 1/10W 1/10W
R164 R165 R167	1-216-067-00 1-216-295-91 1-216-061-00	SHORT	5.6K 0 3.3K	5% 5%	1/10W 1/10W	R375 R376	1-216-073-00 1-216-111-91 1-216-114-00	RES,CHIP	10K 390K 510K	5% 5%	1/10W 1/10W
R168 R169	1-216-085-00 1-216-107-00	RES,CHIP RES,CHIP	33K 270K	5% 5%	1/10W 1/10W	R378 R379 R380 R381	1-216-067-00 1-216-065-91 1-216-689-11	RES,CHIP RES,CHIP RES,CHIP	5.6K 4.7K 39K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R171 R172 R177 R181 R184	1-216-031-00 1-216-295-91 1-216-214-00 1-216-065-91 1-216-649-11	SHORT RES,CHIP	180 0 4.7K 4.7K 820	5% 5% 5% 0.50%	1/10W 1/8W 1/10W 1/10W	R382 R386 R387 R388	1-216-101-00 1-216-091-00 1-216-029-00 1-216-039-00	RES,CHIP RES,CHIP	150K 56K 150 390	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R185 R189	1-216-073-00 1-216-073-00	RES,CHIP RES,CHIP	10K 10K	5% 5%	1/10W 1/10W	R389 R390	1-216-649-11 1-249-393-11	METAL CHIP CARBON	820 10	0.50% 5%	1/10W 1/4W F
R190 R192 R195	1-216-049-91 1-216-073-00 1-216-071-00	RES,CHIP	1K 10K 8.2K	5% 5% 5%	1/10W 1/10W 1/10W	R393 R394 R395 R397	1-216-073-00 1-216-083-00 1-216-651-11 1-216-113-00	RES,CHIP METAL CHIP	10K 27K 1K 470K	5% 5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W



REF. NO.	PART NO.	DESCRIPTION		!	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R398	1-216-105-91	RES,CHIP	220K	5%	1/10 W	R500	1-216-689-11		39K	5%	1/10W
R399	1-216-111-91	RES.CHIP	390K	5%	1/10W	R501 R502	1-216-077-00 1-216-677-11	RES,CHIP METAL CHIP	15 K 12 K	5% 0.50%	1/10W 1/10W
R400	1-216-113-00	RES,CHIP	470K	5%	1/10W						
R404 R406	1-216-029-00 1-216-083-00		150 27K	5% 5%	1/10W 1/10W	R503 R504		METAL CHIP	12K	0.50%	1/10W
R407	1-216-083-00		15K	5%	1/10W 1/10W	R505	1-216-111-91 1-216-067-00		390K 5.6K	5% 5%	1/10W 1/10W
D 400						R506	1-216-073-00	RES,CHIP	10 K	5%	1/10W
R408 R410	1-216-689-11	METAL CHIP	39 K 6.8 K	0.50% 5%	1/10W 1/10W	R507	1-216-083-00	RES,CHIP	27 K	5%	1/10W
R411	1-216-033-00		220	5%	1/10W	R508	1-216-105-91	RES.CHIP	220K	5%	1/10W
R413		METAL CHIP	5.1K	0.50%	1/10W	R509	1-216-089-91	RES,CHIP	47K	5%	1/10W
R414	1-216-6/3-11	METAL CHIP	8.2K	0.50%	1/10 W	R510 R511	1-216-097-91 1-216-099-00		100K 120K	5% 5%	1/10W 1/10W
R416	1-216-113-00		470 K	5%	1/10W	R512	1-216-055-00		1.8K	5%	1/10W
R417 R418		METAL CHIP	3.9K	0.50%	1/10W	D512	1 216 205 01	CHODE	0		
R419	1-216-065-91	METAL CHIP RES.CHIP	4.7K 4.7K	0.50% 5%	1/10W 1/10W	R513 R514	1-216-295-91 1-216-295-91		0		
R420		METAL CHIP	33K	0.50%	1/10W	R515	1-216-675-11	METAL CHIP	10K	0.50%	1/10 W
R426	1-216-039-00	DEC CHID	390	5%	1/10W	R516 R517	1-216-103-00		180K	5%	1/10W
R428	1-216-039-00		100K	5%	1/10W 1/10W	K317	1-214-888-00	METAL	10 K	1%	1/2W
R429	1-216-073-00	RES,CHIP	10 K	5%	1/10W	R518	1-260-123-11		100K	5%	1/2W
R430 R431	1-216-119-00		820K 100K	5%	1/10W 1/10W	R519	1-216-017-91		47	5%	1/10W
N 4 31	1-216-097-91	RES,CHIP	100K	5%	1/10W	R520 R521	1-249-423-11 1-216-065-91		3.3K 4.7K	5% 5%	1/4W F 1/10W
R434	1-216-109-00		330K	5%	1/10 W	R523		METAL OXIDE		5%	2W F
R435 R436	1-216-105-91 1-216-113-00		220K 470K	5% 5%	1/10W 1/10W	R524	1-216-093-00	DEC CUID	68K	5%	1/1034
R437	1-216-097-91		100K	5%	1/10W	R525	1-216-093-00		6.8K	5% 5%	1/10W 1/10W
R441	1-216-645-11	METAL CHIP	560	0.50%	1/10W	R526	1-216-089-91	RES,CHIP	47K	5%	1/10 W
R442	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R527 R528	1-216-089-91 1-216-089-91		47K 47K	5%	1/10W
R443	1-216-049-91		1 K	5%	1/10W	KJ20	1-210-069-91	KES,CHIP	4/K	5%	1/10W
R444	1-216-105-91		220K	5%	1/10W	R529	1-216-089-91		47K	5%	1/10W
R445 R447	1-216-095-00 1-216-069-00		82K 6.8K	5% 5%	1/10W 1/10W	R530 R531	1-216-367-11 1-216-077-00	METAL OXIDE	0.68 15 K	5% 5%	2W F 1/10W
*****	1 210 007 00	KLO,CIII	O.OIL	370	1710**	R532		METAL OXIDE		5%	3W F
R449	1-216-073-00		10 K	5%	1/10W	R533	1-247-723-11	CARBON	6.8 K	5%	1/4W F
R451 R452	1-216-037-00	METAL CHIP	330 1K	5% 0.50%	1/10W 1/10W	R534	1-216-085-00	RES CHIP	33K	5%	1/10W
R453	1-216-097-91		100K	5%	1/10W	R535	1-249-448-11		1.2	5%	1/4W F
R459	1-216-649-11	METAL CHIP	820	0.50%	1/10W	R536	1-216-101-00		150K	5%	1/10W
R460	1-216-295-91	SHORT	0			R537 R539	1-216-089-91 1-216-065-91		47K 4.7K	5% 5%	1/10W 1/10W
R462		METAL CHIP	1 K	0.50%	1/10W		1 210 003 71	ico,cim	1.71	570	1/10//
R463 R464	1-216-065-91 1-216-065-91		4.7K 4.7K	5% 5%	1/10W 1/10W	R540 R541	1-216-113-00		470 K	5%	1/10W
R465	1-216-005-91		100	5%	1/10W	R542	1-249-383-11 1-216-057-00		1.5 2.2K	5% 5%	1/4W F 1/10W
D.466			1.577	-~	1/4 0333	R543	1-212-883-00	FUSIBLE	120	5%	1/4W F
R466 R468	1-216-077-00 1-216-105-91		15 K 220 K	5% 5%	1/10W 1/10W	R544	1-216-095-00	RES,CHIP	82K	5%	1/10 W
R469	1-216-063-91		3.9K	5%	1/10W	R545	1-216-073-00	RES,CHIP	10 K	5%	1/10W
R471	1-216-109-00		330K	5%	1/10W	R546	1-249-425-11		4.7K	5%	1/4W F
R472	1-216-077-00	RES,CHIP	15 K	5%	1/10W	R547 R548	1-216-091-00 1-216-057-00		56K 2.2K	5% 5%	1/10W 1/10W
R473	1-216-121-91	RES,CHIP	1M	5%	1/10W	R549		METAL CHIP	12K	0.50%	1/10W
R476	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	2.50					
R477 R478	1-216-061-00 1-216-073-00		3.3K 10K	5% 5%	1/10W 1/10W	R550 R551	1-216-053-00 1-216-077-00		1.5K 15K	5% 5%	1/10W 1/10W
R479	1-216-085-00		33K	5%	1/10W	R552	1-216-033-00		220	5%	1/10W
D 400	1 214 055 00	200		-~		R553	1-216-083-00		27 K	5%	1/10W
R482 R483	1-216-057-00 1-216-025-91		2.2K 100	5% 5%	1/10W 1/10W	R554	1-216-095-00	RES,CHIP	82K	5%	1/10 W
R484		METAL CHIP	1K	0.50%	1/10W	R555	1-216-692-11	METAL CHIP	51K	0.50%	1/10W
R485	1-216-033-00		220	5%	1/10W	R556		METAL OXIDE		5%	2W F
R486	1-216-681-11	METAL CHIP	18 K	0.50%	1/10W	R557 R558		METAL OXIDE METAL OXIDE		5% · 5%	2W F 2W F
R487		METAL CHIP	1.2K	0.50%	1/10W	R559	1-216-105-91		220K	5%	1/10W
R488 R489	1-216-073-00	RES,CHIP	10K	5%	1/10W	D.5.CO			ECV	E O'	
R489 R491	1-216-077-00 1-216-061-00		15K 3.3K	5% 5%	1/10W 1/10W	R560 R561	1-216-091-00 1-216-049-91		56K 1K	5% 5%	1/10W 1/10W
R492	1-216-085-00		33K	5%	1/10W	R563	1-216-017-91	RES,CHIP	47	5%	1/10 W
R493	1 01/ 005 01	CHORT	^		ļ	R564	1-216-107-00		270K	5%	1/10W
R493 R494	1-216-295-91 1-216-696-11	METAL CHIP	0 75K	0.50%	1/10W	R565	1-216-033-00	KES,CHIP	220	5%	1/10W
R495	1-216-651-11	METAL CHIP	1 K	0.50%	1/10W	R566		METAL CHIP	27K	0.50%	1/10W
R496 R497	1-216-073-00		10K	5%	1/10W	R567	1-216-081-00	RES,CHIP	22 K	5%	1/10W
N42/	1-210-055-11	METAL CHIP	1.2K	0.50%	1/10W	R568 R569	1-216-073-00 1-260-114-11		10 K 18 K	5% 5%	1/10W 1/2W
R498	1-216-061-00		3.3K	5%	1/10W	R571	1-216-065-91		4.7K	5%	1/10W
R499	1-216-033-00	RES,CHIP	220	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION		Ē	REMARK	REF. NO.	PART NO.	DESCRIPTION]	REMARK
R572 R573	1-216-059-00 1-216-071-00		2.7K 8.2K	5% 5%	1/10 W 1/10 W	R1188	1-216-131-11	RES,CHIP	2.7M	5%	1/10W
R575 R576	1-249-383-11 1-216-101-00	RES,CHIP	1.5 150K	5% 5%	1/4W F 1/10W	R1190	1-216-071-00 1-216-131-11	RES,CHIP	8.2K 2.7M	5% 5%	1/10W 1/10W
R578 R579	1-216-093-11	METAL CHIP RES.CHIP	56K 22K	0.50% 5%	1/10W 1/10W	R1191 R1192 R1193	1-216-071-00 1-216-131-11 1-216-025-91	RES,CHIP	8.2K 2.7M 100	5% 5% 5%	1/10W 1/10W 1/10W
R580 R582	1-216-105-91 1-216-085-00	RES,CHIP RES,CHIP	220K 33K	5% 5%	1/10 W 1/10 W	R1194	1-216-085-00	RES,CHIP	33K	5%	1/10W
R583 R584	1-216-039-00 1-216-071-00		390 8.2K	5% 5%	1/10 W 1/10 W	R1195 R1196 R1197	1-216-025-91 1-216-085-00 1-216-025-91	RES,CHIP	100 33 K 100	5% 5% 5%	1/10W 1/10W 1/10W
R585 R586	1-216-033-00 1-216-686-11	RES,CHIP METAL CHIP	220 30K	5% 0.50%	1/10 W 1/10 W	R1198	1-216-085-00		33K	5%	1/10W
R587 R588	1-216-077-00		10K 15K	0.50% 5%	1/10W 1/10W	R1303 R1304	1-216-073-00 1-216-689-11	RES,CHIP	10K 39K	5% 5%	1/10W 1/10W
R589 R590	1-216-067-00 1-216-081-00	,	5.6K 22K	5% 5%	1/10W 1/10W	R1305 R1306 R1307	1-216-033-00 1-216-645-11 1-216-091-00	METAL CHIP	220 560 56K	5% 0.50% 5%	1/10W 1/10W 1/10W
R591 R592		METAL CHIP	20K 10	0.50% 5%	1/10W 1/4W F	R1308	1-216-645-11	METAL CHIP	560	0.50%	1/10 W
R593 R594	1-216-647-11 1-247-713-11	METAL CHIP CARBON	680 1 K	0.50% 5%	1/10W 1/4W	R1309 R1310	1-216-025-91 1-216-057-00	RES,CHIP	100 2.2K	5% 5%	1/10W 1/10W
R595 R596	1-216-689-11 1-214-754-00		39K 11K	5% 1%	1/10W 1/4W	R1311 R1312	1-216-089-91 1-216-027-00		47 K 120	5% 5%	1/10W 1/10W
R597 R598	1-249-417-11 1-216-085-00	CARBON RES,CHIP	1K 33K	5% 5%	1/4W F 1/10W	R1314	1-216-097-91 1-216-081-00	RES,CHIP	100K 22K	5% 5%	1/10W 1/10W
R599 R1103	1-216-645-11	METAL CHIP	560 15K	0.50% 5%	1/10W 1/10W	R1315 R1316 R1317	1-216-073-00 1-216-065-91 1-216-033-00	RES,CHIP	10K 4.7K 220	5% 5% 5%	1/10W 1/10W 1/10W
R1104 R1105	1-216-699-11 1-216-073-00	METAL CHIP RES,CHIP	100K 10K	0.50% 5%	1/10W 1/10W	R1318	1-216-089-91	RES,CHIP	47K	5%	1/10 W
R1106 R1107	1-216-097-91 1-216-059-00		100K 2.7K	5% 5%	1/10W 1/10W	R1319 R1320 R1321	1-216-085-00 1-216-057-00		33K 2.2K 820	5% 5% 0.50%	1/10W 1/10W 1/10W
R1108 R1113	1-216-681-11 1-216-081-00	METAL CHIP RES,CHIP	18K 22K	0.50% 5%	1/10W 1/10W	R1321	1-216-057-00		2.2K	5%	1/10W
R1123 R1125	1-216-071-00 1-216-049-91	RES,CHIP	8.2K 1K	5% 5%	1/10W 1/10W	R1324 R1325		METAL CHIP	3.3K 1.1K	5% 0.50%	1/10W 1/10W
R1126 R1128	1-216-041-00 1-216-065-91		470 4.7 K	5% 5%	1/10W 1/10W	R1326 R1327 R1328	1-216-073-00 1-216-073-00 1-216-125-00	RES,CHIP	10K 10K 1.5M	5% 5% 5%	1/10W 1/10W 1/10W
R1129 R1130	1-216-071-00 1-216-049-91	RES,CHIP RES,CHIP	8.2K 1K	5% 5%	1/10 W 1/10 W	R1329	1-216-103-00	RES,CHIP	180K	5%	1/10 W
R1131 R1132	1-216-049-91 1-216-071-00		1K 8.2K	5% 5%	1/10W 1/10W	R1330 R1331 R1332		METAL CHIP METAL CHIP	22K 15K 6.8K	5% 0.50% 0.50%	1/10W 1/10W 1/10W
R1133 R1134	1-216-069-00 1-216-073-00	RES,CHIP	6.8K 10K	5% 5%	1/10W 1/10W	R1333	1-216-049-91		1K	5%	1/10 W
R1136 R1139 R1140	1-216-097-91 1-216-055-00		100K 1.8K 1.2K	5% 5% 0.50%	1/10W 1/10W 1/10W	R1334 R1335	1-216-063-91 1-249-401-11 1-216-095-00	CARBON	3.9K 47 82K	5% 5% 5%	1/10W 1/4W F 1/10W
R1141	1-216-033-11		1.2K	5%	1/10W	R1336 R1337 R1338	1-216-061-00		3.3K 680	5% 0.50%	1/10W 1/10W 1/10W
R1142 R1143	1-216-653-11 1-216-653-11	METAL CHIP METAL CHIP	1.2K 1.2K	0.50% 0.50%	1/10W 1/10W	R1339	1-216-033-00	RES,CHIP	220	5%	1/10 W
R1146 R1147	1-216-057-00 1-216-057-00		2.2K 2.2K	5% 5%	1/10 W 1/10 W	R1340 R1341 R1342	1-216-033-00 1-216-033-00 1-216-083-00	RES,CHIP	220 220 27 K	5% 5% 5%	1/10W 1/10W 1/10W
R1150 R1151	1-216-037-00 1-216-081-00	RES,CHIP	330 22K	5% 5%	1/10W 1/10W	R1343	1-216-037-00		330	5%	1/10W
R1155 R1163 R1164	1-216-133-00 1-216-033-00 1-216-049-91	RES,CHIP	3.3M 220 1K	5% 5% 5%	1/10W 1/10W 1/10W	R1344 R1345	1-216-093-00 1-216-109-00	RES,CHIP	68K 330K	5% 5%	1/10W 1/10W 1/10W
R1165	1-216-049-91		1K	5%	1/10W	R1346 R1347 R1348	1-216-097-91 1-216-073-00 1-216-071-00	RES,CHIP	100K 10K 8.2K	5% 5% 5%	1/10W 1/10W 1/10W
R1170 R1171	1-216-089-91 1-216-085-00	RES,CHIP	47K 33K	5% 5%	1/10W 1/10W	R1349	1-216-035-00		270	5%	1/10W
R1172 R1174	1-216-085-00 1-216-089-91		33K 47K	5% 5%	1/10W 1/10W	R1350 R1351 R1352	1-216-073-00 1-216-033-00 1-216-025-91	RES,CHIP	10K 220 100	5% 5% 5%	1/10W 1/10W 1/10W
R1177 R1179	1-216-071-00 1-216-041-00	RES,CHIP	8.2K 470	5% 5%	1/10W 1/10W	R1353	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1180 R1182 R1183	1-216-089-91 1-216-131-11 1-216-071-00	RES,CHIP	47K 2.7M 8.2K	5% 5% 5%	1/10W 1/10W 1/10W	R1354 R1355 R1356	1-216-089-91 1-216-033-00 1-216-105-91	RES,CHIP	47K 220 220K	5% 5% 5%	1/10W 1/10W 1/10W
R1184	1-216-131-11	RES,CHIP	2.7M	5% 5%	1/10W 1/10W	R1356 R1357 R1358	1-216-103-91 1-216-101-00 1-216-071-00	RES,CHIP	150K 8.2K	5% 5% 5%	1/10W 1/10W 1/10W
R1185 R1186	1-216-071-00 1-216-131-11	RES,CHIP	8.2K 2.7M	5% 5%	1/10W 1/10W	R1359	1-216-099-00	RES,CHIP	120K	5%	1/10W
R1187	1-216-071-00	KES,CHIP	8.2K	5%	1/10W	R1360	1-216-065-91	Kes,Chip	4.7K	5%	1/10 W



REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION		1	REMARK
R1361 R1362 R1363	1-216-113-00 1-216-676-11 1-216-113-00	METAL CHIP	470K 11K 470K	5% 0.50% 5%	1/10W 1/10W 1/10W	R1432 R1433 R1434 R1435		RES,CHIP METAL CHIP	47K 33K 560	5% 5% 0.50%	1/10W 1/10W 1/10W
R1364 R1365 R1366 R1367		RES,CHIP RES,CHIP METAL CHIP	10K 2.7M 22K 2.4K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	R1436 R1437 R1438	1-216-055-00 1-216-073-00 1-216-069-00 1-216-073-00	RES,CHIP RES,CHIP RES,CHIP	1.8K 10K 6.8K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1368 R1369 R1370	1-216-059-00 1-216-051-00 1-216-105-91	RES,CHIP	2.7K 1.2K 220K	5% 5% 5%	1/10W 1/10W 1/10W	R1439 R1440 R1441	1-216-059-00 1-216-041-00 1-216-033-00	RES,CHIP	2.7K 470 220	5% 5% 5%	1/10W 1/10W 1/10W
R1371 R1372 R1373	1-216-113-00 1-216-089-91 1-216-063-91	RES,CHIP RES,CHIP	470K 47K 3.9K	5% 5% 5%	1/10W 1/10W 1/10W	R1442 R1443 R1444 R1445	1-216-073-00 1-216-013-00 1-216-057-00 1-216-071-00	RES,CHIP RES,CHIP	10K 33 2.2K 8.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1374 R1375 R1376 R1378 R1379		METAL CHIP METAL CHIP RES,CHIP	150K 560 680 4.7K 330	5% 0.50% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1446 R1447 R1448 R1449	1-216-071-00 1-216-081-00 1-216-085-00 1-216-057-00	RES,CHIP RES,CHIP RES,CHIP	8.2K 22K 33K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W
R1380 R1381	1-216-645-11 1-216-647-11	METAL CHIP METAL CHIP	560 680	0.50% 0.50%	1/10W 1/10W	R1450 R1451	1-216-129-00 1-216-093-00	RES,CHIP RES,CHIP	2.2M 68K	5% 5%	1/10W 1/10W 1/10W
R1382 R1383 R1384	1-216-091-00	METAL CHIP RES,CHIP	10K 18K 56K	5% 0.50% 5%	1/10W 1/10W 1/10W	R1452 R1453 R1454 R1455	1-216-085-00 1-216-013-00 1-216-065-91 1-216-113-00	RES,CHIP RES,CHIP RES,CHIP	33K 33 4.7K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1385 R1386 R1387 R1388 R1389	1-216-689-11		10K 15K 1.2K 39K 1.8K	5% 5% 0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	R1456 R1457 R1458 R1459	1-216-129-00 1-216-089-91 1-216-085-00 1-216-133-00	RES,CHIP RES,CHIP RES,CHIP	2.2M 47K 33K 3.3M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1390 R1391 R1392 R1393	1-216-647-11 1-216-025-91 1-216-041-00 1-216-063-91	RES,CHIP	680 100 470 3.9K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1460 R1461 R1462 R1463	1-216-645-11	RES,CHIP METAL CHIP METAL CHIP METAL CHIP	100K 560 560 560	5% 0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W
R1394 R1395	1-216-041-00 1-216-071-00	RES,CHIP RES,CHIP	470 8.2K	5% 5%	1/10W 1/10W	R1464 R1465 R1466	1-216-057-00 1-216-097-91 1-216-055-00	RES,CHIP RES,CHIP	2.2K 100K 1.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1396 R1397 R1399 R1401	1-216-071-00 1-216-065-91 1-216-073-00 1-216-085-00	RES,CHIP RES,CHIP	8.2K 4.7K 10K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1467 R1468 R1469 R1470	1-216-073-00 1-216-091-00 1-216-057-00 1-216-057-00	RES,CHIP RES,CHIP	10K 56K 2.2K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1402 R1403 R1404 R1405 R1406	1-216-681-11 1-216-071-00	METAL CHIP METAL CHIP	0 1K 18K 8.2K 1.2K	0.50% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	R1471 R1472 R1473 R1475	1-216-049-91 1-216-085-00 1-216-081-00 1-216-677-11	RES,CHIP RES,CHIP RES,CHIP METAL CHIP	1K 33K 22K 12K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W
R1407 R1408 R1409	1-216-061-00 1-216-113-00 1-216-295-91	RES,CHIP	3.3K 470K 0	5% 5%	1/10W 1/10W	R1476 R1477 R1478	1-216-063-91 1-216-057-00 1-216-061-00	RES,CHIP	3.9K 2.2K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W
R1410 R1411 R1412	1-216-053-00 1-216-073-00 1-216-107-00	RES,CHIP RES,CHIP	1.5K 10K 270K	5% 5% 5%	1/10W 1/10W 1/10W	R1480 R1481 R1482 R1483	1-216-089-91 1-216-115-00 1-216-089-91 1-216-089-91	RES,CHIP RES,CHIP RES,CHIP	47K 560K 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1413 R1414 R1415 R1416	1-216-081-00 1-216-057-00 1-216-093-00 1-216-113-00	RES,CHIP RES,CHIP RES,CHIP RES,CHIP	22K 2.2K 68K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1484 R1485 R1486 R1487	1-216-081-00 1-216-113-00 1-216-097-91 1-216-097-91	RES,CHIP RES,CHIP RES,CHIP RES,CHIP	22K 470K 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1417 R1418 R1419 R1420 R1421	1-216-033-00 1-216-033-00 1-216-025-91 1-216-089-91 1-216-649-11	RES,CHIP RES,CHIP	220 220 100 47 K 820	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	R1488 R1490 R1491 R1492	1-216-083-00 1-216-035-00 1-216-035-00 1-216-035-00	RES,CHIP RES,CHIP RES,CHIP	27K 270 270 270	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1422 R1423 R1424	1-216-085-00 1-216-057-00 1-216-081-00	RES,CHIP RES,CHIP	33K 2.2K 22K	5% 5% 5%	1/10W 1/10W 1/10W	R1493 R1494 R1495	1-216-083-00 1-216-081-00 1-216-089-91	RES,CHIP RES,CHIP	27K 22K 47K	5% 5%	1/10W 1/10W 1/10W
R1425 R1426 R1427	1-216-013-00 1-216-113-00 1-216-681-11		33 470K 18K	5% 5% 0.50%	1/10W 1/10W 1/10W	R1496 R1498 R1500 R1501	1-216-089-91 1-216-065-91 1-216-647-11 1-216-075-00	RES,CHIP METAL CHIP	47K 4.7K 680 12K	5% 5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W
R1428 R1429 R1430 R1431	1-216-061-00	RES,CHIP METAL CHIP RES,CHIP	3.3K 5.1K 10K 2.2M	5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1502 R1503 R1504 R1505	1-260-111-11 1-216-063-91	CARBON RES,CHIP METAL CHIP	10K 3.9K 30K 10	5% 5% 0.50% 5%	1/2W 1/10W 1/10W 1/4W F

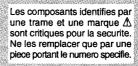
Les composants identifies par une trame et une marque \(\Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



DEE NO	DADTNO	PECCULORION		n	EMADE :	DEE NO	DADTNO	DESCRIPTION		n	TIAND W
REF. NO.	PART NO.	DESCRIPTION			EMARK	REF. NO.	PART NO.	DESCRIPTION	2275		EMARK
R1506 R1507	1-216-033-00 1-216-065-91	•	220 4.7 K	5% 5%	1/10W 1/10W	R2305 R2306 R2307	1-216-085-00 1-216-089-91 1-216-033-00	RES,CHIP	33K 47K 220	5% 5% 5%	1/10W 1/10W 1/10W
R1508 R1510	1-216-083-00 1-216-077-00	RES,CHIP	27K 15K	5% 5%	1/10W 1/10W	R2308	1-216-103-00	•	180 K	5%	1/10W
R1511 R1512	1-216-360-11	METAL OXIDE METAL CHIP	8.2 680	5% 0.50%	1W F 1/10W	R2309 R2310	1-216-049-91 1-216-095-00		1K 82K	5% 5%	1/10W 1/10W
R1513	1-247-752-11	CARBON	1K	5%	1/2W F	R2311 R2312	1-216-073-00 1-216-053-00		10K 1.5K	5% 5%	1/10W 1/10W
R1514 R1515		METAL OXIDE		5% 5%	1/4W F 1W F	R2313	1-216-049-91		1K	5%	1/10 W
R1517 R1518	1-216-109-00 1-215-867-00	RES,CHIP METAL OXIDE	330 K 470	5% 5%	1/10W 1W F	R2314 R2315 R2316		METAL CHIP METAL CHIP RES CHIP	560 15K 22K	0.50% 0.50% 5%	1/10W 1/10W 1/10W
R1519 R1520	1-216-355-11 1-216-027-00	METAL OXIDE RES.CHIP	3.3 120	5% 5%	1W F 1/10W		1-216-049-91		1K	5%	1/10W
R1521 R1523	1-216-029-00		150	5% 5%	1/10W 1W F	R2318 R2319	1-216-069-00 1-216-093-00		6.8 K 68 K	5% 5%	1/10W 1/10W
R1524		METAL OXIDE		5%	iW F			METAL CHIP	12K 2.2K	0.50% 5%	1/10W 1/10W 1/10W
R1525	1-216-083-00		27K 47K	5% 5%	1/10W 1/10W	R2322	1-216-065-91		4.7K	5%	1/10 W
R1526 R1527	1-216-089-91 1-249-413-11	CARBON	470	5%	1/4W F			METAL CHIP	22K	0.50%	1/10W
R1528 R1529	1-215-869-11 1-202-829-11		1K 8.2K	5% 20%	1W F 1/2W	R2324 R2325	1-216-073-00 1-216-063-91	RES,CHIP	10 K 3.9 K	5% 5%	1/10 W 1/10 W
R1530	1-216-115-00	RES,CHIP	560K	5%	1/10W	R2326 R2327	1-216-041-00 1-216-059-00		470 2.7K	5% 5%	1/10W 1/10W
R1531 R1532	1-247-697-11 1-216-059-00	CARBON	56 2.7 K	5% 5%	1/4W F 1/10W	R2328	1-216-049-91		1K	5%	1/10W
R1533	1-249-414-11		560 2.2K	5% 0.50%	1/4W F 1/10W		1-216-059-00 1-216-049-91	RES,CHIP	2.7K 1K	5% 5%	1/10W 1/10W
R1534	S S T C TO TO SO SO TO TO TO SO TO S		2.2 K	0.30%	1/10W	R2331	1-216-049-91 1-216-059-00 1-216-049-91	RES,CHIP	2.7K 1K	5% 5%	1/10W 1/10W 1/10W
R1536 Z	1-249-389-11		4.7	5%	1/4W F	R2332		,			
R1538 R1540	1-216-073-00 1-216-105-91	RES,CHIP	10K 220K	5% 5%	1/10W 1/10W	R2333 R2334	1-216-089-91 1-216-041-00	RES,CHIP	47 K 470	5% 5%	1/10W 1/10W
R1541	1-216-081-00	•	22K	5%	1/10W	R2335 R2336	1-216-061-00 1-216-065-91	RES,CHIP	3.3K 4.7K	5% 5%	1/10W 1/10W
R1543 R1547	1-216-027-00 1-216-391-11	RES,CHIP METAL OXIDE	120 1.5	5% 5%	1/10W 3W F	R2337	1-216-037-00	RES,CHIP	330	5%	1/10W
R1548 R1549	1-216-057-00 1-260-094-11		2.2 K 390	5% 5%	1/10W 1/2W	R2338 R2339	1-216-073-00 1-216-037-00		10 K 330	5% 5%	1/10W 1/10W
R1550	1-216-105-91		220K	5%	1/10W	R2341 R2342	1-216-037-00 1-216-071-00	RES,CHIP	330 8.2K	5% 5%	1/10W 1/10W
R1551 R1552	1-249-393-11 1-216-091-00		10 56 K	5% 5%	1/4W F 1/10W		1-216-081-00		22K	5%	1/10W
R1553	1-216-091-00	RES,CHIP	56 K	5%	1/10W	R2344	1-216-121-91		1M	5%	1/10W
R1554 R1555	1-216-059-00 1-216-295-91		2.7K 0	5%	1/10W	R2345 R2346	1-216-061-00		18K 3.3K	0.50% 5%	1/10W 1/10W
R1556	1-216-071-00		8.2K	5%	1/10W	R2347 R2348	1-216-061-00 1-216-061-00		3.3K 3.3K	5% 5%	1/10W 1/10W
R1557 R1558	1-249-393-11		220K 10	0.50% 5%	1/10W 1/4W F	R2349	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R1559 R1560	1-249-393-11 1-216-049-91		10 1 K	5% 5%	1/4W F 1/10W	R2350 R2351	1-216-061-00 1-216-061-00		3.3K 3.3K	5% 5%	1/10W 1/10W
R1561	1-216-097-91		100K	5%	1/10W	R2352 R2353	1-216-061-00 1-216-041-00	RES,CHIP	3.3K 470	5% 5%	1/10W 1/10W
R1562 R1563	1-216-089-91 1-216-089-91	RES,CHIP	47K 47K	5% 5%	1/10W 1/10W	R2354	1-216-025-91	•	100	5%	1/10W
R1565	1-216-113-00	RES,CHIP	470K 47K	5% 5%	1/10W 1/10W	R2357 R2358	1-216-091-00 1-216-025-91	RES,CHIP	56K 100	5% 5%	1/10W 1/10W
R1567	1-216-089-91					R2361	1-216-099-00	RES,CHIP	120K	5%	1/10W
R1570 R1571	1-216-073-00 1-216-103-00	RES,CHIP	10 K 180 K	5% 5%	1/10W 1/10W	R2362	1-216-081-00		22K	5%	1/10W
R1572 R1573	1-216-101-00 1-216-073-00		150K 10K	5% 5%	1/10 W 1/10 W	R2363 R2364	1-216-065-91 1-216-025-91	RES,CHIP	4.7 K 100	5% 5%	1/10W 1/10W
R1574	1-216-041-00	RES,CHIP	470	5%	1/10 W	R2365 R2366	1-216-687-11 1-216-067-00	METAL CHIP RES,CHIP	33K 5.6K	0.50% 5%	1/10W 1/10W
R1575 R1576	1-216-025-91 1-216-025-91		100 100	5% 5%	1/10W 1/10W	R2367	1-216-099-00	RES,CHIP	120K	5%	1/10W
R1577 R1578	1-216-025-91 1-216-065-91	RES,CHIP	100 4.7K	5% 5%	1/10W 1/10W	R2368 R2369	1-216-065-91	RES,CHIP METAL CHIP	4.7 K 10 K	5% 0.50%	1/10 W 1/10 W
R1579		METAL CHIP	39K	0.50%	1/10W	R2371 R2372	1-216-049-91 1-216-113-00	RES,CHIP	1K 470K	5% 5%	1/10W 1/10W
R1595	1-216-041-00		470 120 K	5% 5%	1/10W 1/10W	R2374	1-216-097-91		100K	5%	1/10 W
R1596 R2300	1-216-099-00 1-216-065-91	RES,CHIP	4.7 K	5%	1/10W	R2375	1-216-089-91		47K	5%	1/10W
R2301 R2302	1-216-065-91 1-216-671-11	RES,CHIP METAL CHIP	4.7 K 6.8 K	5% 0.50%	1/10W 1/10W	R2376 R2377	1-216-089-91 1-216-033-00	RES,CHIP	47K 220	5% 5%	1/10W 1/10W
R2303	1-216-093-00		68K	5%	1/10W	R2378 R2379	1-216-089-91 1-216-033-00		47K 220	5% 5%	1/10W 1/10W
R2304	1-216-105-91	RES,CHIP	220K	5%	1/10 W	1					

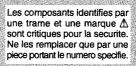




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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION]	REMARK
R2380 R2381	1-216-089-91 1-216-089-91		47K 47K	5% 5%	1/10W 1/10W	R3395	1-216-049-91	RES,CHIP	1 K	5%	1/10W
R2382 R2383	1-216-089-91 1-216-033-00		47 K 220	5% 5%	1/10W 1/10W	R3396 R3398	1-216-041-00	RES,CHIP METAL CHIP	470 27 K	5% 0.50%	1/10W 1/10W
R2384	1-216-689-11		39K	5%	1/10W	R3399	1-216-025-91	RES,CHIP	100	5%	1/10 W
R2389	1-216-033-00	RES,CHIP	220	5%	1/10W	R3400 R3401	1-216-091-00 1-216-061-00		56K 3.3K	5% 5%	1/10W 1/10W
R2390 R2391		METAL CHIP METAL CHIP	680 680	0.50% 0.50%	1/10W 1/10W	R3402	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R2392 R2393	1-216-073-00 1-216-073-00	RES,CHIP	10K 10K	5% 5%	1/10W 1/10W	R3403 R3404	1-216-025-91 1-216-073-00	RES,CHIP	100	5%	1/10 W
						R3405	1-216-067-00	RES,CHIP	10K 5.6K	5% 5%	1/10W 1/10W
R2394 R2396	1-216-081-00 1-216-041-00		22 K 470	5% 5%	1/10W 1/10W	R3406	1-216-073-00	RES,CHIP	10 K	5%	1/10W
R2397 R2398	1-216-113-00 1-216-109-00		470K 330K	5% 5%	1/10W 1/10W	R3407 R4401	1-216-073-00 1-216-085-00		10 K 33 K	5% 5%	1/10W 1/10W
R2399	1-216-073-00		10 K	5%	1/10W	R4404 R4405	1-216-073-00 1-216-067-00	RES,CHIP	10K	5%	1/10W 1/10W
R2501	1-216-083-00		27K	5%	1/10W	R4407	1-216-061-00		5.6K 3.3K	5% 5%	1/10W 1/10W
R2502 R2503	1-216-085-00 1-216-089-91		33K 47K	5% 5%	1/10W 1/10W	R4408	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2504 R2551	1-216-101-00 1-216-091-00		150K 56K	5% 5%	1/10W 1/10W	R4409 R4410	1-216-059-00 1-216-059-00		2.7 K 2.7 K	5% 5%	1/10W 1/10W
				5%		R4411	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2552 R2553	1-216-085-00 1-216-083-00	RES,CHIP	33K 27K	5%	1/10W 1/10W	R4412	1-216-113-00	•	470K	5%	1/10W
R2555 R2556	1-216-055-00 1-216-051-00		1.8K 1.2K	5% 5%	1/10W 1/10W	R4413 R4414	1-216-295-91 1-216-295-91		0		
R2557	1-216-067-00		5.6K	5%	1/10W	R4415 R4416	1-216-295-91 1-216-295-91	SHORT	0		
R2558	1-216-057-00		2.2K	5%	1/10W	K4410	1-210-295-91	SHOKI	U		
R2559 R2560	1-216-039-00 1-216-069-00		390 6.8 K	5% 5%	1/10 W 1/10 W			<variable re<="" td=""><td>SISTOR></td><td></td><td></td></variable>	SISTOR>		
R2561 R2562	1-216-001-00 1-216-001-00		10 10	5% 5%	1/10W 1/10W	RV501	1-223-102-00	RES, ADJ, WIRE	WOUND	120	
R2563	1-216-057-00		2.2K	5%	1/10W						
R3301	1-216-073-00	RES,CHIP	10K	5%	1/10W			<transforme< td=""><td>ER></td><td></td><td></td></transforme<>	ER>		
R3302 R3303	1-216-065-91 1-216-065-91	RES,CHIP	4.7K 4.7K	5% 5%	1/10W 1/10W	T500	1-426-668-11	TRANSFORMER	R, FERRITI	E (HDT)	
R3304	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	T501 <u>/</u>	1-453-233-11	TRANSFORMER	RASSY, FI	YBACK	
R3308 R3310	1-216-097-91 1-216-049-91		100 K 1 K	5% 5%	1/10W 1/10W			<thermistor:< td=""><td></td><td></td><td></td></thermistor:<>			
R3311	1-216-689-11	RES,CHIP	39K 82K	5%	1/10W	THEOD	1 007 070 11				
R3312 R3317	1-216-095-00 1-216-675-11	METAL CHIP	10 K	5% 0.50%	1/10W 1/10W	TH500	1-80/-9/0-11	THERMISTOR			
R3320	1-216-085-00	RES,CHIP	33K	5%	1/10 W			<crystal></crystal>			
R3323 R3333	1-216-089-91 1-216-113-00		47K 470K	5% 5%	1/10W 1/10W	X101	1-579-175-11	VIBRATOR, CEI	RAMIC		•
R3334	1-216-073-00	RES,CHIP	10 K	5%	1/10W	X300	1-577-259-11	VIBRATOR, CR	YSTAL		
R3335	1-216-113-00		470K	5%	1/10W	X301	1-327-722-00	VIBRATOR, CR	ISTAL		
R3336 R3337	1-216-045-00 1-216-099-00		680 120 K	5% 5%	1/10W 1/10W						
R3338 R3339	1-216-103-00 1-216-045-00		180K 680	5% 5%	1/10W 1/10W	*******	******	******	******	******	******
R3346	1-216-025-91		100	5%	1/10W	3	* A-1298-297-A	A BOARD, CO		20inch m	odel)
R3347	1-216-025-91		100	5%	1/10 W				****		
R3348 R3349	1-216-025-91 1-216-025-91		100 100	5% 5%	1/10W 1/10W	,	1-540-044-11 * 4-043-994-01	SOCKET, IC PLATE (CF), SH	IELD		
R3350 R3351	1-216-119-00 1-216-119-00	RES,CHIP	820K 820K	5% 5%	1/10W 1/10W		* 4-058-301-01	RING, SHORT SCREW (M3X10		1	
R3355		,						SCREW +PSW 3		,	
R3356	1-216-089-91 1-216-051-00	RES,CHIP	47K 1.2K	5% 5%	1/10W 1/10W		7-685-663-79	SCREW +BVTP	4X16 TYPI	E2 IT-3	
R3357 R3358	1-216-051-00 1-216-051-00		1.2K 1.2K	5% 5%	1/10W 1/10W						
R3359	1-216-081-00		22K	5%	1/10W			<band fi<="" pass="" td=""><td>LTER></td><td></td><td></td></band>	LTER>		
R3360 R3361	1-216-073-00		10K	5%	1/10W	BPF400	1-236-363-11	FILTER, BAND	PASS		
R3362	1-216-089-91 1-216-049-91	RES,CHIP	47K 1K	5% 5%	1/10W 1/10W						
R3363 R3364	1-216-049-91 1-216-073-00		1 K 10 K	5% 5%	1/10W 1/10W			<capacitor></capacitor>			
R3376	1-216-081-00	•	22K	5%	1/10W	C105 C106		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V
R3378 R3390	1-216-119-00	RES,CHIP	820K 2.2K	5%	1/10W	C114	1-163-031-11	CERAMIC CHIP	0.01MF	5 70	50V
R3394	1-216-057-00 1-216-089-91		2.2 K 47 K	5% 5%	1/10 W 1/10 W	C116 C117		CERAMIC CHIP CERAMIC CHIP			50V 50V
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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C118 C119		CERAMIC CHIP CERAMIC CHIP		5%	50V 50V	C360	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C121 C123 C124	1-163-237-11 1-165-319-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	27PF 0.1MF 100PF	5% 5%	50V 50V 50V	C361 C362 C363 C364	1-163-031-11 1-163-099-00 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 18PF 0.01MF	5%	50V 50V 50V 50V
C132 C133 C134 C135 C136	1-163-251-11 1-163-251-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 100PF 100PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	C365 C366 C367 C368	1-163-031-11 1-124-261-00	CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 10MF	20%	100V 50V 50V 50V
C140 C141 C142 C143	1-164-161-11 1-163-259-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0022MF 220PF	10% 10% 5%	25V 50V 50V 50V	C369 C370 C371 C372	1-104-664-11 1-104-664-11		47MF 47MF	10% 20% 20%	25V 25V 25V 50V
C144 C145	1-165-319-11	CERAMIC CHIP	0.1 MF		50V 50V	C373 C374 C375	1-163-141-00 1-126-960-11	CERAMIC CHIP	0.001MF 1MF	5% 20% 5%	50V 50V 50V
C154 C155 C156 C157	1-163-023-00 1-163-019-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.015MF 0.0068MF		50V 50V 50V 50V	C376 C377 C378 C379	1-163-809-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.047MF	20% 10% 10%	50V 25V 25V 50V
C158 C159 C161 C162	1-164-344-11 1-104-664-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.068MF 47MF	10% 10% 20% 5%	25V 25V 25V 50V	C380 C381 C382		CERAMIC CHIP CERAMIC CHIP		20% 5%	16V 50V 50V
C164	1-165-319-11 1-165-319-11	CERAMIC CHIP	0.1MF 0.1MF	100	50V 50V	C383 C384 C385	1-104-664-11 1-163-249-11 1-104-664-11	CERAMIC CHIP	47MF 82PF 47MF	20% 5% 20%	25V 50V 25V
C166 C167 C168 C169	1-126-925-11 1-126-925-11 1-164-232-11	ELECT CERAMIC CHIP	470MF 470MF 0.01MF	10% 20% 20% 10%	25V 10V 10V 50V	C386 C387 C388 C390	1-124-261-00 1-163-243-11	CERAMIC CHIP ELECT CERAMIC CHIP	10MF 47PF	20% 5% 20% 5%	50V 50V 50V 50V
C171 C172 C173 C174 C200	1-163-123-00 1-163-123-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	180PF 180PF	5% 5% 5% 5% 20%	50V 50V 50V 50V 50V	C391 C392 C393 C394	1-164-298-11 1-104-664-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.15MF 47MF	20% 10% 10% 20%	25V 25V 25V 25V
C201 C202 C203 C204	1-137-353-11 1-163-017-00 1-126-963-11 1-126-964-11	CERAMIC CHIP ELECT	0.047MF 0.0047MF 4.7MF 10MF	10% 10% 20% 20%	100V 50V 50V 50V	C395 C396 C397 C398				5% 10% 20% 20%	50V 25V 25V 25V
C205 C206	1-126-767-11 1-128-526-11	ELECT ELECT	1000MF	20%	16V 25V	C399 C400 C401		ELECT CERAMIC CHIP CERAMIC CHIP		20% 10%	25V 25V 16V
C207 C208 C209 C304	1-104-665-11 1-126-964-11 1-126-963-11 1-164-004-11	ELECT	100MF 10MF 4.7MF 0.1MF	20% 20% 20% 10%	25V 50V 50V 25V	C407 C409 C411 C414	1-164-004-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	20% 10%	25V 50V 25V 50V
C305 C306 C310	1-163-031-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF	5% 10%	50V 50V 25V	C415 C416	1-126-964-11 1-164-232-11	ELECT CERAMIC CHIP	10MF 0.01MF	20% 10%	50V 50V
C311 C312 C313	1-126-961-11	CERAMIC CHIP ELECT CERAMIC CHIP	2.2MF	10% 20% 5%	25V 50V 50V	C417 C418 C419 C420	1-164-182-11 1-126-925-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.0033MF 470MF	10% 10% 20% 10%	50V 50V 10V 25V
C314 C315 C316 C318	1-163-249-11 1-126-964-11 1-104-664-11 1-126-964-11	ELECT	82PF 10MF 47MF 10MF	5% 20% 20% 20%	50V 50V 25V 50V	C421 C422 C423 C424	1-126-960-11 1-163-809-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	1MF 0.047MF	20% 10% 10%	25V 50V 25V 25V
C325 C328 C340 C343	1-163-031-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	20%	50V 50V 50V 50V	C424 C426 C427 C429	1-163-243-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47PF 0.01MF	5%	50V 50V 50V
C349 C350	1-163-141-00	CERAMIC CHIP CERAMIC CHIP	0.001MF	5% 5%	50V 50V	C430 C431 C433	1-104-661-91 1-165-319-11		330MF 0.1MF	20% 5%	16V 50V 50V
C352 C353 C354 C355	1-163-031-11 1-165-319-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF	5% 20%	50V 50V 50V 50V	C434 C435 C437 C439	1-164-004-11 1-163-089-00 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 6PF 0.1MF	10% 0.25PF 10% 10%	25V
C356 C357 C358 C359		CERAMIC CHIP CERAMIC CHIP		20% 20%	50V 50V 50V 25V	C440 C441 C442	1-164-004-11 1-126-962-11	CERAMIC CHIP	0.1MF 3.3MF	10% 10% 20% 10%	25 V 25 V 50 V 25 V
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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C443	1-163-107-00	CERAMIC CHIP	39PF	5%	50V	C520	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C444		CERAMIC CHIP			50V	C521	1-162-114-00		0.0047MF		2KV
C446	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	C522	1-126-768-11		2200MF	20%	16V
C447	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C523 C525 ₫	1-107-902-11	FILM	1MF 0.012MF	20%	50V 2KV
C448		CERAMIC CHIP		5%	50V	UJZJ <u>U</u>	71-170-001-11	I ILJVI	U.ULZIVII	370	AN V
C449		CERAMIC CHIP		0.5PF	50V	C526 /	1-162-116-91	CERAMIC	680PF	10%	2KV
C450		CERAMIC CHIP		10%	25V	C529	1-107-901-11		0.47MF	20%	50V
C451	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C530	1-104-666-11		220MF	20%	25V
C452	1 162 262 11	CERAMIC CHIP	220DE	5%	50V	C531 C532	1-104-664-11		47MF	20%	25V
C452 C453		CERAMIC CHIP		10%	25V	C332	1-103-031-11	CERAMIC CHIP	U.UTMIT		50V
C454		CERAMIC CHIP		5%	50V	C533	1-102-212-00	CERAMIC	820PF	10%	500V
C455		CERAMIC CHIP		5%	50V	C534	1-107-662-11		22MF	20%	250V
C456	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	C537	1-126-971-11		470MF	20%	50V
C457	1-164-004-11	CERAMIC CHIP	0 IME	10%	25V	C538 C539	1-137-150-11 1-130-480-00		0.01MF 0.0056MF	10%	100V 50V
C458		CERAMIC CHIP		5%	50V	C339	1-150-460-00	TILIVI	0.00301411	370	30 V
C459	1-165-319-11	CERAMIC CHIP	0.1MF		50V	C540	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C460		CERAMIC CHIP		10%	25V	C541	1-107-905-11		4.7MF	20%	50V
C461	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	C542	1-136-481-11		0.0022MF		100V
C462	1-164-004-11	CERAMIC CHIP	0 IME	10%	25V	C543 C544	1-136-481-11 1-137-150-11		0.0022MF 0.01MF	10%	100V 100V
C463		CERAMIC CHIP		10%	25V	C344	1-157-150-11	WIILAK	U.UTIVII	1076	100 V
C464		CERAMIC CHIP		10%	25V	C545	1-102-212-00	CERAMIC	820PF	10%	500V
C465		CERAMIC CHIP		5%	50V	C546		CERAMIC CHIP		5%	50V
C466	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	C547		CERAMIC CHIP		5%	50V
C467	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	C548 C549	1-102-212-00 1-107-906-11		820PF 10MF	10% 20%	500V 50V
C469		CERAMIC CHIP		10%	50V	C349	1-107-900-11	LLLCI	TOWIT	2070	30 v
C470		CERAMIC CHIP		5%	50V	C550	1-107-905-11	ELECT	4.7MF	20%	50V
C471		CERAMIC CHIP		5%	50V	C551	1-106-375-12		0.022MF	10%	100V
C472	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C552	1-107-889-11		220MF	20%	25V
C473	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C553 C554	1-106-389-00 1-130-736-11		0.082MF 0.01MF	10% 5%	200V 50V
C475		CERAMIC CHIP			50V	C554	1-130-730-11	I ILIVI	0.011411	370	30 V
C476	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C555	1-126-964-11	ELECT	10MF	20%	50V
C477		CERAMIC CHIP		10%	25V	C556	1-126-964-11		10MF	20%	50V
C478	1-126-964-11	ELECT	10 MF	20%	50V	C557 C558	1-106-381-12		0.039MF	10%	100V
C479	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C559	1-126-960-11 1-136-173-00		1MF 0.47MF	20% 5%	50V 50V
C483		CERAMIC CHIP		5%	50V	0333	1 150 175 00	1 12141	0.471411	3 10	30 v
C484		CERAMIC CHIP		5%	50V	C561	1-136-159-00	FILM	0.033MF	5%	50V
C485		CERAMIC CHIP		5%	50V	C564	1-126-964-11		10MF	20%	50V
C486	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	C565 C566	1-126-960-11		1MF	20%	50V
C487	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C567	1-137-150-11 1-136-499-11		0.01MF 0.047MF	10% 5%	100V 50V
C490		CERAMIC CHIP			25V	000.	. 150 155 11	1 12111	0.0171711	570	30 v
C491		CERAMIC CHIP			25V	C568	1-126-960-11		1MF	20%	50V
C492		CERAMIC CHIP		100	25V	C569		TANTALUM	3.3MF	10%	25V
C493	1-104-760-11	CERAMIC CHIP	0.04/MF	10%	50V	C570 C571	1-126-767-11	CERAMIC CHIP	1000MF	20% 10%	16V 50V
C494	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C572	1-104-709-11		4.7MF	0	160V
C495	1-126-964-11	ELECT	10MF	20%	50 V	00,2		22201	*.,,,,,,,	Ū	1001
C496	1-163-249-11	CERAMIC CHIP		5%	50 V	C573	1-136-177-00		1MF	5%	50V
C497		CERAMIC CHIP			50V	C576	1-102-244-00		220PF	10%	500V
C498	1-126-961-11	ELECT	2.2MF	20%	50V	C577 C578	1-107-906-11 1-136-111-00		10MF 1MF	20% 5%	50V 200V
C499	1-163-031-11	CERAMIC CHIP	0.01MF		50 V	C579	1-107-910-11		100MF	20%	50V
C500	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V						
C501		CERAMIC CHIP			50V	C580	1-136-105-00		0.33MF	5%	200V
C502 C503		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	C581	1-126-963-11		4.7MF	20%	50V
C303	1-105-251-11	CERAMIC CHIP	IUUFF	370	30 V	C582 C583	1-102-002-00 1-136-541-11		680PF 1.5MF	10% 5%	500V 200V
C504	1-136-495-11	FILM	0.068MF	5%	50V	C584	1-107-949-11		2.2MF	20%	160V
C505		CERAMIC CHIP	560PF	5%	50V					_0,0	
C506	1-126-959-11		0.47MF	20%	50V	C585	1-107-960-11		4.7MF	20%	250V
C507 C508	1-128-526-11		100MF 0.15MF	20%	25V 50V	C586	1-126-942-61		1000MF	20%	25V
C308	1-130-497-00	MILAK	U.IJNIF	5%	30 V	C587 C588	1-102-030-00 1-107-906-11		330PF 10MF	10% 20%	500V 50V
C509	1-128-566-11	ELECT	470MF	20%	100V	C589	1-102-030-00		330PF	10%	500V
C511	1-107-368-11	FILM	0.047MF	10%	200V						
C512	1-126-959-11		0.47MF	20%	50V	C590	1-107-903-11		2.2MF	20%	50V
C513 C514 A	1-124-261-00 1-129-718-91		10MF 0.022MF	20% 5%	50V 630V	C591 C592	1-107-365-11 1-107-635-11		0.015MF 4.7MF	10% 20%	200V 160V
	44-167-110-71	* ******	O.UZZIVII	JW	UJUY	C592 C593		CERAMIC CHIP		2070	100 V 50 V
C515	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C594		CERAMIC CHIP		5%	50V
C516	1-102-030-00	CERAMIC	330PF	10%	500V						_
C517 C518		CERAMIC CHIP		10%	50V	C595	1-107-889-11		220MF	20%	25V
C518	1-107-947-11 1-163-017-00	CERAMIC CHIP	220MF 0.0047MF	20% 10%	160V 50V	C596 C597	1-104-665-11	CERAMIC CHIP	100MF	20%	25V 16V
	1 103 017 00	CDIC MINIC CITI	5.00 17 IVII	1070	50,	C598		CERAMIC CHIP			16V 16V
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REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C599	1-124-261-00	ELECT	10MF	20%	50V	C1391	1-136-165-00	FILM	0.1MF	5%	50V
C1300	1-104-664-11		47MF	20%	25V	C1394 C1395	1-126-967-11 1-126-967-11		47MF 47MF	20% 20%	50V 50V
C1302 C1304	1-104-664-11		47MF	5% 20%	50V 25V	C1396		CERAMIC CHIP		5%	50V
C1305 C1307	1-104-664-11 1-163-031-11	ELECT CERAMIC CHIP	47MF 0.01MF	20%	25V 50V	C1397 C1398	1-124-234-00		22MF	20%	50V 16V
C1308	1-126-933-11	ELECT	100MF	20%	10V	C1399 C1400	1-104-664-11 1-163-031-11	ELECT CERAMIC CHIP	47MF 0.01MF	20%	25V 50V
C1309 C1311		CERAMIC CHIP	180PF 47MF	5% 20%	50V 25V	C1401	1-136-173-00	FILM	0.47MF	5%	50V
C1312 C1313	1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF	20.5	50V 50V	C1402 C1403		CERAMIC CHIP		5%	50V 50V
C1314	1-104-664-11		47MF	20%	25V	C1404 C1408	1-164-299-11	CERAMIC CHIP CERAMIC CHIP	0.22MF	10% 5%	25V 50V
C1315 C1316	1-104-664-11		47MF	20%	25V 50V	C1500	1-126-768-11		2200MF	20%	16V
C1317	1-104-664-11	ELECT	47MF	20%	25V	C1501	1-126-925-11	ELECT	470MF 0.1MF	20% 5%	10V 50V
C1318	1-104-664-11		47MF	20%	25V	C1505 C1506	1-136-165-00 1-104-661-91	ELECT	330MF	20%	16V
C1319 C1320	1-124-234-00 1-104-664-11	ELECT	22MF 47MF	20% 20%	16V 25V	C1507		CERAMIC CHIP		5%	50V
C1321 C1322	1-104-664-11 1-126-934-11	ELECT	47MF 220MF	20% 20%	25V 16V	C1508 C1509	1-126-963-11 1-126-964-11	ELECT	4.7MF 10MF	20% 20%	50V 50V
C1323	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C1510 C1511		CERAMIC CHIP		20% 10%	50V 50V
C1324 C1325		CERAMIC CHIP CERAMIC CHIP			50V 50V	C1512	1-126-963-11		4.7MF	20%	50V
C1326 C1327	1-104-664-11 1-163-031-11	ELECT CERAMIC CHIP	47MF 0.01MF	20%	25V 50V	C1513 C1514	1-163-197-00 1-130-477-00	CERAMIC CHIP MYLAR	470PF 0.0033MF	5% 5%	50V 50V
C1328		CERAMIC CHIP			50V	C1515 C1516	1-126-964-11 1-163-063-91	ELECT CERAMIC CHIP	10MF 0.022MF	20% 10%	50V 50V
C1329 C1330	1-126-964-11 1-163-031-11	ELECT CERAMIC CHIP	10MF 0.01MF	20%	50V 50V	C1517	1-128-526-11		100MF	20%	10V
C1331 C1332	1-104-664-11 1-104-664-11	ELECT	47MF 47MF	20% 20%	25V 25V	C1518 C1520	1-107-909-11 1-162-129-00		47MF 150PF	20% 10%	16V 2KV
C1333	1-104-664-11		47MF	20%	25V	C1521 C1530	1-163-243-11	CERAMIC CHIP CERAMIC CHIP	47PF	5%	50V 50V
C1334 C1335	1-163-227-11 1-104-664-11	CERAMIC CHIP	10PF 47MF	0.5PF 20%	50V 25V	C1538		CERAMIC CHIP		5%	50V
C1336	1-104-664-11	ELECT	47MF	20%	25V	C1539		CERAMIC CHIP		5% 5%	50V 50V
C1338 C1339		CERAMIC CHIP CERAMIC CHIP			50V 50V	C1540 C1541	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C1340		CERAMIC CHIP		- ~	50V	C1542 C2501		CERAMIC CHIP CERAMIC CHIP		5% 10%	50V 50V
C1341 C1342	1-163-105-00	CERAMIC CHIP CERAMIC CHIP	33PF	5% 5%	50V 50V	C2502	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1343 C1344		CERAMIC CHIP CERAMIC CHIP		5% 0.25PF	50V 50V						
C1345	1-124-261-00		10MF	20%	50V			<connector></connector>			
C1346 C1347	1-124-589-11 1-163-031-11	ELECT CERAMIC CHIP	47MF 0.01MF	20%	16V 50V	CN101 CN102		CONNECTOR, B PLUG, CONNEC		BOAR	D 11P
C1348 C1349		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	CN104 CN105		PLUG, CONNEC CONNECTOR, B		BOAR	D 12P
C1350		CERAMIC CHIP		10%	50V	CN201	* 1-564-506-11	PLUG, CONNÉC	TOR 3P		
C1351 C1352	1-126-160-11		1MF	20% 10%	50V 50V	CN301 CN302		PLUG, CONNEC			
C1353 C1354	1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF	5%	50V 50V	CN305 CN306	1-779-070-21	PIN, CONNECTO PLUG. CONNEC	OR 12P		
C1354		CERAMIC CHIP		5%	50V	CN401		PLUG, CONNEC			
C1356	1-163-235-11	CERAMIC CHIP	22PF	5%	50V 16V	CN402		PLUG, CONNECTOR PI			
C1357 C1358	1-104-661-91 1-124-589-11	ELECT	330MF 47MF	20% 20%	16V	CN501 CN502	* 1-573-964-11	PIN, CONNECTO	OR (PC BO		
C1359		CERAMIC CHIP		5%	50V	CN503 CN504		PIN, CONNECTO PLUG, CONNEC		AKD) (or
C1360 C1362	1-163-249-11	CERAMIC CHIP CERAMIC CHIP	82PF	5%	50V 50V	CN505		PLUG, CONNEC			
C1363 C1364	1-163-133-00	CERAMIC CHIP CERAMIC CHIP	470PF	5% 5%	50V 50V	CN507 CN508		TAB (CONTACT PIN, CONNECTO		ARD) 2	2P
C1365	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V						
C1366 C1367	1-104-664-11 1-104-664-11		47MF 47MF	20% 20%	25V 25V			<composition< td=""><td>CIRCUIT</td><td>BLOC</td><td>K></td></composition<>	CIRCUIT	BLOC	K>
C1372 C1373	1-104-664-11 1-104-664-11	ELECT	47MF 47MF	20% 20%	25V 25V	CP300 CP301		MODULE, TRAP MODULE, TRAP			
C1374	1-104-664-11		47MF	20%	25V	CP302 CP303	1-808-654-21			3-4)	
C1375 C1378	1-126-963-11 1-163-231-11	ELECT CERAMIC CHIP	4.7MF 15PF	20% 5%	50V 50V		- 10 TOM OI		(011	/	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
		<diode></diode>		D422 D423		DIODE MA111 DIODE 1SS226		
D100 D101		DIODE MA111 DIODE 1SS226		D424		DIODE MA111		
D102 D103	8-719-045-70	DIODE 1SS226 DIODE 1SV230TPH3		D425 D427	8-719-404-49	DIODE 1SS226 DIODE MA111		
D104		DIODE 1SS226		D500 D501	8-719-977-03	DIODE MA111 DIODE DTZ5.61	3	
D105 D107 D108	8-719-800-76	DIODE 1SS226 DIODE 1SS226		D502		DIODE UF5406		
D108 D109 D111	8-719-801-78	DIODE 1S2836 DIODE 1SS184 DIODE DTZ6.2		D503 D504 D505	8-719-901-83	DIODE MA111 DIODE 1SS83 DIODE RGP02-1	17ET 6422	
D114		DIODE MA111		D506 D507	8-719-033-83	DIODE ERD07-1 DIODE 1SS226		
D115 D116	8-719-977-05	DIODE DTZ6.2 DIODE MA111		D508		DIODE 1SS226		
D117 D200		DIODE 1S2076 DIODE DTZ13C		D510 D512		DIODE EL1Z DIODE UF5406		
D300		DIODE 1SV232-TPH3		D513 D514		DIODE MA111 DIODE ERC38-0	06	
D301 D303 D304	8-719-977-05	DIODE MA111 DIODE DTZ6.2 DIODE 1SS184		D515		DIODE ERC38-0)6	
D305		DIODE 1SS226		D516 D517 D518	8-719-404-49	DIODE MA111 DIODE MA111 DIODE MA111		
D307 D308		DIODE MA111 DIODE MA111		D519		DIODE MA111		
D309 D310	8-719-104-34	DIODE MA111 DIODE 1S2836		D520 D521	8-719-404-49	DIODE 1SS184 DIODE MA111		
D311		DIODE 1SV230TPH3		D522 D523	8-719-404-49	DIODE DTZ6.2 DIODE MA111		
D313 D314 D315	8-719-404-49	DIODE 1SS184 DIODE MA111 DIODE MA111		D524 D525		DIODE 10E-2 DIODE 10E-2		
D317 D320	8-719-404-49	DIODE MA111 DIODE MA111	! ! !	D526 D527	8-719-404-49	DIODE 10E-2 DIODE MA111 DIODE 10E-2		
D322	8-719-404-49	DIODE MA111	1 1 1 1	D528 D529	8-719-300-76	DIODE RH-1A DIODE 10E-2		
D323 D324	8-719-404-49	DIODE MA111 DIODE MA111		D530		DIODE RH-1A		
D325 D326		DIODE 1SS184 DIODE MA111		D531 D532	8-719-800 - 76	DIODE DTZ11B DIODE 1SS226		
D327 D332		DIODE 1S2836 DIODE MA111	3	D533 D534		DIODE EL1Z DIODE MA111		
D333 D335	8-719-404-49	DIODE MA111 DIODE MA111	1 3 5 5 5	D535 D536		DIODE MA111 DIODE 1SS226		
D337		DIODE MA111		D538 D539	8-719-404-49	DIODE 1SS226 DIODE MA111	•	
D338 D339 D344	8-719-404-49	DIODE MA111 DIODE MA111 DIODE 1SS184		D540 D541		DIODE MA111 DIODE 1SS184		
D345 D346	8-719-104-34	DIODE 1S2836 DIODE 1S2836		D543		DIODE MA111		
D347		DIODE 1S2836				<delay line=""></delay>		
D360 D361	1-216-295-91 1-216-295-91	SHORT 0		DL300		DELAY LINE, Y		
D362 D363		DIODE RD10SB1 DIODE RD10SB1		DL301 DL401		DELAY LINE, Y DELAY LINE		
D364 D365		DIODE 1S2836 DIODE MA111				<ferrite beal<="" td=""><td>)></td><td></td></ferrite>)>	
D381 D401	8-719-404-49	DIODE MA111 DIODE MA111		FB501	1-410-396-41		0.45UH	
D404		DIODE 188226						
D405 D406 D407	8-719-404-49	DIODE 1SS184 DIODE MA111 DIODE MA111		EI 200	1 226 547 11	<filter></filter>		
D407 D408 D410	8-719-404-49	DIODE MA111 DIODE MA111		FL300 FL401	1-236-547-11 1-236-364-11	FILTER, BAND	PASS	
D411	8-719-404-49	DIODE MA111				<ic></ic>		
D414 D415	8-719-801-78	DIODE 1SS184 DIODE 1SS184				IC uPD78P018FY		
D416 D417		DIODE 1SS184 DIODE 1SS184		IC102 IC103	8-759-008-48	IC ST24C02FM6' IC MC74HC86F		
D418 D421		DIODE 1SS184 DIODE MA111		IC104 IC105		IC uPD6451AGT- IC M62358FP-E1		
-	- 7.7 101 47		į					

Les composants identifies par une trame et une marque \(\frac{\Lambda}{\text{sont}}\) critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



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	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	IC106 IC107 IC108 IC109 IC110	8-759-196-70 8-759-042-02 8-759-196-70	IC M62358FP-E1 IC M62358FP-E1 IC S-80743AL-A7-S IC M62358FP-E1 IC M62358FP-E1		L305 L308 L309 L311 L312	1-410-466-41 1-410-470-11 1-410-470-11	INDUCTOR CHIP 2.2UH INDUCTOR 4.7UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR CHIP 27UH	
	IC111 IC112 IC200 IC302 IC303	8-759-354-27 8-759-420-04 8-759-998-98			L314 L316 L317 L319 L320	1-412-011-31 1-410-090-41 1-408-615-31	INDUCTOR CHIP 27UH INDUCTOR CHIP 27UH INDUCTOR 18mH INDUCTOR 100UH INDUCTOR 470UH	
	IC304 IC305 IC306 IC307 IC309	8-759-631-08 8-759-358-46 8-759-008-67	IC BU4053BCF IC M51279FP IC MM1114XFBE IC MC14066BF IC MM1114XFBE		L401 L402 L403 L404 L405	1-410-215-31 1-410-215-31 1-410-215-31	INDUCTOR 47UH INDUCTOR CHIP 82UH INDUCTOR CHIP 82UH INDUCTOR CHIP 82UH INDUCTOR CHIP 82UH INDUCTOR 68UH	
	IC310 IC311 IC312 IC313 IC314	8-759-008-67 8-759-358-46 8-759-446-66	IC BU4053BCF IC MC14066BF IC MM1114XFBE IC MM1113XFBE IC MM1113XFBE		L406 L409 L500 L501 L502	1-410-215-31 1-459-155-00 1-407-365-00	INDUCTOR 68UH INDUCTOR CHIP 82UH COIL (WITH CORE) 45UH COIL,CHOKE COIL,CHOKE	
	IC315 IC316 IC317 IC318 IC319	8-759-432-78 8-759-009-51 8-759-009-67	IC BU4053BCF IC MM1111XFBE IC MC14538BF IC MC14584BF IC MC14066BF		L503 L504 L505 L506 L507	1-410-666-31 1-410-671-31 1-459-104-00	INDUCTOR 33mH INDUCTOR 18UH INDUCTOR 47UH COIL, DUST CORE INDUCTOR 1mH	
	IC320 IC321 IC322 IC323 IC324	8-759-446-66 8-759-446-66 8-759-446-66	IC MM1114XFBE IC MM1113XFBE IC MM1113XFBE IC MM1113XFBE IC MM1113XFBE		L508 L509 L510 L512 A	1-459-087-00 1-459-106-00 1-459-232-11	INDUCTOR 27UH COIL,HCC DUST CORE 3.9mH COIL,DUST CORE INDUCTOR 0UH INDUCTOR 3.9mH	
	IC325 IC326 IC327 IC350 IC402	8-759-060-00 8-759-008-67 8-759-909-71	IC MM1113XFBE IC BA10324AF IC MC14066BF IC BA4558F IC CXA1211M		L514 L515 L517	1-459-059-00	COIL, DUST CORE COIL, DUST CORE INDUCTOR 680UH	
	IC404 IC405 IC407 IC408 IC409	8-759-932-67 8-759-008-67 8-759-510-73	IC CXA1739S IC BU4053BCF IC MC14066BF IC BA10393F-E2 IC BA10324AF		NL500	1-519-526-11	<neon lamp=""> LAMP, NEON <transistor></transistor></neon>	
	IC410 IC411 IC412 IC413 IC500	8-759-009-06 8-759-008-92 8-759-932-67	IC MC14052BF IC MC14024BF IC BU4053BCF IC BU4053BCF		Q101 Q104 Q105 Q107 Q108	8-729-907-26 8-729-027-38 8-729-027-38	TRANSISTOR DTC144EKA-T146 TRANSISTOR IMX1 TRANSISTOR DTA144EKA-T146 TRANSISTOR DTA144EKA-T146 TRANSISTOR 2SD601A-S	;
	IC502 IC503 IC504 IC505 IC506	8-759-009-51 8-752-053-21 8-759-088-08	IC MC14538BF IC MC14538BF IC CXA1211M IC uPC7812AHF IC MC14538BF		Q110 Q112 Q113 Q114 Q200	8-729-422-29 8-729-422-29 8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD774-34	
	IC507 IC508 IC509 IC510 IC513	8-752-053-21 8-759-998-98 8-759-009-51	IC uPC1377C IC CXA1211M IC LM358D IC MC14538BF IC MC14538BF		Q201 Q300 Q301 Q302 Q303	8-729-422-29 8-729-422-29 8-729-216-22	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-S	
	JR302 JR307	1-216-295-91 1-216-295-91	SHORT 0		Q305 Q306 Q307 Q308 Q309	8-729-422-29 8-729-422-29 8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R	
	JR310 L101		<coil> INDUCTOR 33UH</coil>		Q310 Q311 Q312 Q313 Q314	8-729-422-37 8-729-422-29 8-729-422-37	TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R TRANSISTOR DTA144EKA-T146	
	L102 L104 L105 L300	1-408-611-31 1-408-619-31 1-410-482-31	INDUCTOR 47UH INDUCTOR 220UH INDUCTOR 100UH INDUCTOR 47UH		Q315 Q316 Q318 Q319	8-729-422-37 8-729-422-29 8-729-422-37	TRANSISTOR 2SB709A-R TRANSISTOR 2SD601A-S TRANSISTOR 2SB709A-R TRANSISTOR 2SD601A-S	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Q320	8-729-422-29	TRANSISTOR 2SD601A-S		Q430 Q431		TRANSISTOR 2			************
Q321 Q322	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q432		TRANSISTOR			
Q323 Q324	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146		Q433 Q434	8-729-422-29	TRANSISTOR I	2SD601A-S		
Q325 Q326		TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q435 Q436 Q437	1-801-806-11	TRANSISTOR I TRANSISTOR I TRANSISTOR I	OTC144EK	A-T146	
Q327 Q328	8-729-422-37 8-729-141-53	TRANSISTOR 2SB709A-R TRANSISTOR 2SK94-X2X3X4		Q442	8-729-422-29	TRANSISTOR 2	2SD601A-S	11110	
Q329 Q330		TRANSISTOR 2SK94-X2X3X4 TRANSISTOR 2SB709A-R		Q443 Q444 Q445	8-729-422-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR I	SD601A-S	A T116	
Q331 Q332	1-801-806-11	TRANSISTOR 2SB709A-R TRANSISTOR DTC144EKA-T146		Q446		TRANSISTOR I			
Q333 Q335 Q338	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SC1623 L 51 6		Q447 Q448	1-801-806-11	TRANSISTOR I	DTC144EK	4-T146	
Q339		TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SB709A-R		Q449 Q500 Q501	8-729-422-37	TRANSISTOR I TRANSISTOR 2 TRANSISTOR 2	SB709A-R		
Q341 Q342	8-729-920-39 8-729-920-39	TRANSISTOR IMTIUS TRANSISTOR IMTIUS		O502	8-729-119-80	TRANSISTOR 2	SC2688-LK	ζ.	
Q343 Q345		TRANSISTOR IMT1US TRANSISTOR 2SD601A-S		Q503 Q505 Q506	8-729-422-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SD601A-S	()-MT2	
Q350 Q351	8-729-422-29	TRANSISTOR 2SB709A-R TRANSISTOR 2SD601A-S		Q507		TRANSISTOR 2			
Q352 Q353	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q508 Q511	8-729-422-29	TRANSISTOR 2	SD601A-S		
Q354 Q355		TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		Q512 Q513 Q514	8-729-122-03	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR I	SA1220A-F	•	
Q356 Q360	8-729-907-26	TRANSISTOR DTC144EKA-T146 TRANSISTOR IMX1		Q515	8-729-106-92	TRANSISTOR 2	SC2690A-Q	Q	
Q361 Q362		TRANSISTOR DTA144EKA-T146 TRANSISTOR 2SD601A-S	,	Q516 Q517 Q518	8-729-027-38	TRANSISTOR I TRANSISTOR I TRANSISTOR I	DTA144EKA	A-T146	
Q363 Q364	1-801-806-11	TRANSISTOR 2SD601A-S TRANSISTOR DTC144EKA-T146		Q519	1-801-806-11	TRANSISTOR I	OTC144EKA		
Q365 Q366 Q367	8-729-422-37	TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R		Q520 Q522 Q523	8-729-422-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SD601A-S		
Q368	8-729-422-37	TRANSISTOR 2SB709A-R		Q524 Q525	8-729-422-29	TRANSISTOR 2 TRANSISTOR 2	SD601A-S		
Q369 Q372 Q373	1-801-806-11	TRANSISTOR DTA144EKA-T146 TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146		Q533 Q534		TRANSISTOR I		A-T146	
Q380		TRANSISTOR DTC144EKA-T146		Q535 Q2501	8-729-422-29	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SD601A-S		
Q381 Q382 Q383	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146		_		DEGIGEOD.			
Q384 Q385	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146		R101	1-216-025-91	<resistor> RES.CHIP</resistor>	100	5%	1/1 0W
Q386	1-801-806-11	TRANSISTOR DTC144EKA-T146		R102 R103	1-216-025-91 1-216-025-91	RES,CHIP RES,CHIP	100 100	5% 5%	1/10W 1/10W
Q401 Q402 Q407	8-729-422-29	TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S TRANSISTOR 2SD601A-S		R104 R105	1-216-073-00 1-216-059-00	RES,CHIP RES,CHIP	10K 2.7K	5% 5%	1/10W 1/10W
Q409	8-729-422-37	TRANSISTOR 2SB709A-R		R106 R107	1-216-065-91 1-216-065-91		4.7K 4.7K	5% 5%	1/10W 1/10W
Q410 Q412 Q414	8-729-216-22	TRANSISTOR IMX1 TRANSISTOR 2SA1162-G TRANSISTOR 2SB709A-R		R108 R109 R110	1-216-065-91 1-216-065-91 1-216-073-00	RES,CHIP	4.7K 4.7K 10K	5% 5%	1/10W 1/10W
Q415 Q416	8-729-422-37	TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R		R113	1-216-085-00		33K	5% 5%	1/10W 1/10W
Q417 Q418		TRANSISTOR 2SB709A-R		R117 R119	1-216-073-00 1-216-073-00	RES,CHIP RES,CHIP	10 K 10 K	5% 5%	1/10W 1/10W
Q418 Q419 Q420	8-729-422-37	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R		R130 R132	1-216-099-00 1-216-065-91		120K 4.7K	5% 5%	1/10W 1/10W
Q421	1-801-806-11	TRANSISTOR DTC144EKA-T146		R134 R137	1-216-065-91 1-216-065-91	RES,CHIP	4.7K 4.7K	5% 5%	1/10W 1/10W
Q422 Q423 Q424	8-729-422-29	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SD601A-S TRANSISTOR DTC144EKA-T146		R140 R141 R144	1-216-033-00 1-216-085-00 1-216-295-91	RES,CHIP	220 33K 0	5% 5%	1/10W 1/10W
Q425 Q426	1-801-806-11	TRANSISTOR DTC144EKA-T146 TRANSISTOR DTC144EKA-T146		R149	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
Q428 Q429		TRANSISTOR 2SB709A-R TRANSISTOR 2SB709A-R		R151 R154 R155	1-216-061-00 1-216-065-91	RES,CHIP	3.3K 4.7K	5% 5%	1/10W 1/10W
~ ·>	5-147 -4 44-31	IMMIDIDION ZOD/UJA-N		KIJJ	1-216-083-00	res,unip	27 K	5%	1/10W



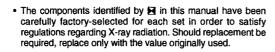
REF. NO.	PART NO.	DESCRIPTION		R	EMARK	REF. NO.	PART NO.	DESCRIPTION		I	REMARK
R157	1-216-065-91	RES,CHIP	4.7 K	5%	1/10W	R357	1-216-121-91		1M 4.7K	5% 5%	1/10W 1/10W
R158	1-216-295-91		0			R366 R371	1-216-065-91 1-216-025-91		100	5%	1/10W
R159	1-216-063-91		3.9K	5%	1/10W	2000	1 016 072 00	DEC CUID	1017	E 01	1/ 10W
R160	1-216-061-00		3.3K	5%	1/10W	R372	1-216-073-00		10 K 560	5% 0.50%	1/10W 1/10W
R162 R163	1-216-065-91 1-216-065-91		4.7K 4.7K	5% 5%	1/10W 1/10W	R373 R374		METAL CHIP METAL CHIP	680	0.50%	1/10W 1/10W
K103	1-210-003-91	RES,CIII	4.7K	3 10	1/10 W	R375	1-216-073-00		10 K	5%	1/10W
R164	1-216-067-00	RES.CHIP	5.6K	5%	1/10W	R376	1-216-111-91		390K	5%	1/10W
R165	1-216-295-91		0								
R167	1-216-061-00		3.3K	5%	1/10W	R378	1-216-114-00		510K	5%	1/10W
R168	1-216-085-00		33K	5%	1/10W	R379	1-216-067-00		5.6K	5%	1/10W
R169	1-216-107-00	RES,CHIP	270K	5%	1/10W	R380 R381	1-216-065-91 1-216-689-11		4.7 K 39 K	5% 5%	1/10W 1/10W
R171	1-216-031-00	RES CHIP	180	5%	1/10W	R382	1-216-101-00		150K	5%	1/10W
R172	1-216-295-91		0	5 70	1/1011	1002	1 210 101 00	RDS,CIII	15011	5 70	1,10.,
R177	1-216-214-00		4.7K	5%	1/8W	R386	1-216-091-00	RES,CHIP	56K	5%	1/10W
R181	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R387	1-216-029-00		150	5%	1/10W
R184	1-216-649-11	METAL CHIP	820	0.50%	1/10 W	R388	1-216-039-00		390	5%	1/10W
D105	1 016 070 00	DEC CITID	107/	E 01	1/1037	R389		METAL CHIP	820 10	0.50% 5%	1/10W 1/4W F
R185 R189	1-216-073-00 1-216-073-00		10 K 10 K	5% 5%	1/10W 1/10W	R390	1-249-393-11	CARBON	10	370	1/4 W I
R190	1-216-049-91		1K	5%	1/10W	R393	1-216-073-00	RES.CHIP	10 K	5%	1/10W
R192	1-216-073-00		10K	5%	1/10W	R394	1-216-083-00		27 K	5%	1/10W
R195	1-216-071-00		8.2K	5%	1/10W	R395	1-216-651-11	METAL CHIP	1K	0.50%	1/10 W
						R397	1-216-113-00		470K	5%	1/10W
R200		METAL CHIP	30K	0.50%	1/10W	R398	1-216-105-91	RES,CHIP	220K	5%	1/10W
R201	1-216-049-91		1 K	5%	1/10W 1/4W F	R399	1-216-111-91	DEC CHID	390K	5%	1/10W
R202 R203	1-212-857-00 1-260-095-11		10 470	5% 5%	1/4W F 1/2W	R400	1-216-111-91		470K	5%	1/10W 1/10W
R204	1-260-072-11		4.7	5%	1/2W	R404	1-216-029-00		150	5%	1/10W
1120.	1 200 0,2 11	0.11.2		- /-		R405	1-216-121-91		1M	5%	1/10W
R205	1-216-647-11	METAL CHIP	680	0.50%	1/10W	R406	1-216-083-00	RES,CHIP	27K	5%	1/10W
R206	1-216-073-00		10K	5%	1/10W	D 40#		DEC CIUD	2277	- ~	1 /1 0337
R207	1-216-065-91		4.7K 4.7K	5% 5%	1/10W 1/10W	R407 R408	1-216-085-00	METAL CHIP	33K 39K	5% 0.50%	1/10W 1/10W
R208 R209	1-216-065-91 1-216-073-00		4.7K 10K	5%	1/10W 1/10W	R410	1-216-069-00		6.8K	5%	1/10W 1/10W
1(20)	1-210-075-00	KLO,CIII	1011	5 70	1,1011	R411	1-216-033-00		220	5%	1/10W
R210	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R413	1-216-121-91		1 M	5%	1/10W
R211	1-249-393-11		10	5%	1/4W F						
R302	1-216-025-91		100	5%	1/10W	R414	1-216-295-91		0	-~	1 /1 0377
R304	1-216-025-91		100	5%	1/10W	R416	1-216-113-00		470K	5%	1/10 W 1/10 W
R307	1-216-115-00	RES,CHIP	560K	5%	1/10 W	R417 R418		METAL CHIP METAL CHIP	3.9 K 4.7 K	0.50% 0.50%	1/10W 1/10W
R308	1-216-065-91	RES.CHIP	4.7K	5%	1/10W	R426	1-216-039-00		390	5%	1/10W
R311	1-216-055-00		1.8K	5%	1/10W						
R312	1-216-073-00	RES,CHIP	10K	5%	1/10W	R428	1-216-097-91		100K	5%	1/10W
R313		METAL CHIP	750	0.50%	1/10W	R429	1-216-073-00		10K	5%	1/10W
R314	1-216-099-00	RES,CHIP	120K	5%	1/10W	R430	1-216-119-00		820K	5% 5%	1/10W 1/10W
R315	1-216-099-00	DES CHID	120K	5%	1/10W	R431 R434	1-216-097-91 1-216-109-00		100K 330K	5%	1/10W 1/10W
R316	1-216-049-91		1K	5%	1/10W	10154	1 210 107 00	KEO,CIII	23011	570	1,1011
R317	1-216-057-00		2.2K	5%	1/10W	R435	1-216-105-91	RES,CHIP	220K	5%	1/10W
R318	1-216-049-91		1K	5%	1/10W	R436	1-216-113-00		470K	5%	1/10 W
R320	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R437	1-216-097-91		100K	5%	1/10W
D221	1 216 051 00	DEC CUID	1.2K	5%	1/10W	R441 R442		METAL CHIP METAL CHIP	560 680	0.50% 0.50%	1/10 W 1/10 W
R321 R322	1-216-051-00 1-216-035-00		270	5%	1/10W 1/10W	11774	1-210-04/-11	METAL CHIP	500	0.50 10	1/10 **
R323	1-216-109-00		330K	5%	1/10W	R443	1-216-049-91	RES,CHIP	1K	5%	1/10W
R324	1-216-101-00		150K	5%	1/10W	R444	1-216-105-91		220K	5%	1/10W
R325	1-216-037-00	RES,CHIP	330	5%	1/10W	R445	1-216-095-00		82K	5%	1/10W
D004		DEG CIUD	220	<i>5.01</i>	1 (10337	R447	1-216-069-00		6.8K	5%	1/10W
R326	1-216-033-00		220	5% 5%	1/10W 1/10W	R449	1-216-073-00	KES,CHIP	10K	5%	1/10 W
R328 R329	1-216-121-91 1-216-055-00	DES CHIP	1M 1.8K	5%	1/10W	R451	1-216-037-00	RES CHIP	330	5%	1/10W
R330	1-216-089-91	RES,CHIP	47K	5%	1/10W	R452		METAL CHIP	1K	0.50%	1/10W
R331	1-216-093-00		68K	5%	1/10W	R453	1-216-097-91		100K	5%	1/10W
		•				R459	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R332	1-216-097-91		100K	5%	1/10W	R460	1-216-295-91	SHORT	0		
R333	1-216-097-91		100K	5%	1/10W	D460	1 014 451 11	METAL CUID	1 V	0.500	1/10337
R334 R335	1-216-093-00 1-216-083-00	RES,CHIP	68K 27K	5% 5%	1/10 W 1/10 W	R462 R463	1-216-051-11	METAL CHIP	1K 3.9K	0.50% 5%	1/10W 1/10W
R335	1-216-065-91		4.7K	5%	1/10W	R464	1-216-065-91		4.7K	5%	1/10W 1/10W
	. 210 005-91	, 01111		2.0		R465	1-216-025-91		100	5%	1/10 W
R342	1-216-065-91		4.7 K	5%	1/10W	R466	1-216-077-00		15K	5%	1/10W
R345	1-216-063-91		3.9K	5%	1/10W	D 462	1 016 107 01	DEC CITE	22077	~ ~	
R346	1-216-057-00		2.2K	5%	1/10W	R468	1-216-105-91		220K	5%	1/10W
R349 R350	1-216-694-11 1-216-085-00	METAL CHIP	62K 33K	0.50% 5%	1/10 W 1/10 W	R469 R471	1-216-063-91 1-216-109-00		3.9K 330K	5% 5%	1/10W 1/10W
NOON	1-210-003-00	REO,CITIF	JJ1X	5 10	11 10 11	R471 R472	1-216-077-00		15K	5%	1/10W 1/10W
R351	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R473	1-216-121-91		1M	5%	1/10 W
R354	1-216-119-00	RES,CHIP	820K	5%	1/10W						



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION]	REMARK
R476 R477	1-216-061-00 1-216-061-00		3.3K 3.3K	5% 5%	1/10W 1/10W	R549	1-216-677-11	METAL CHIP	12 K	0.50%	1/10W
R478 R479	1-216-073-00 1-216-085-00	RES,CHIP	10 K 33 K	5% 5%	1/10W 1/10W	R550 R551	1-216-053-00 1-216-077-00		1.5K 15K	5% 5%	1/10W 1/10W
R482	1-216-057-00		2.2K	5%	1/10 W	R552	1-216-033-00	RES,CHIP	220	5%	1/10W
R483	1-216-025-91	RES,CHIP	100	5%	1/10W	R553 R554	1-216-083-00 1-216-095-00		27K 82K	5% 5%	1/10W 1/10W
R484 R485	1-216-651-11 1-216-033-00	METAL CHIP		0.50% 5%	1/10W 1/10W	R555	1-216-692-11	METAL CHIP	51K	0.50%	1/10W
R486	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	R556	1-215-897-11	METAL OXIDE	6.8K	5%	2W F
R487	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10 W	R557 R558		METAL OXIDE METAL OXIDE	8.2K 680	5% 5%	2W F 2W F
R488 R489	1-216-073-00 1-216-077-00		10 K 15 K	5% 5%	1/10W 1/10W	R559	1-216-109-00	RES,CHIP	330K	5%	1/10W
R491 R492	1-216-063-91 1-216-085-00	RES,CHIP	3.9 K 33 K	5% 5%	1/10W 1/10W	R560 R561	1-216-091-00		56K	5%	1/10W
R493	1-216-295-91		0	370	1/10W	R562	1-216-049-91 1-247-692-11	CARBON	1K 22	5% 5%	1/10W 1/4W F
R494	1-216-696-11	METAL CHIP	75K	0.50%	1/10W	R563 R564	1-216-017-91 1-216-107-00		47 270 K	5% 5%	1/10W 1/10W
R495 R496	1-216-651-11 1-216-073-00	METAL CHIP	1 K 10 K	0.50% 5%	1/10W 1/10W	R565	1-216-033-00	RES CHIP	220	5%	1/10W
R497	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10 W	R566	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R498	1-216-063-91	RES,CHIP	3.9 K	5%	1/10W	R567 R568	1-216-081-00 1-216-073-00		22K 10K	5% 5%	1/10W 1/10W
R499 R500	1-216-033-00 1-216-689-11		220 39K	5% 5%	1/10W 1/10W	R569	1-260-119-11	CARBON	47K	5%	1/2W
R501	1-216-077-00	RES,CHIP	15K	5%	1/10W	R571	1-216-065-91		4.7K	5%	1/10W
R502 R503		METAL CHIP METAL CHIP		0.50% 0.50%	1/10W 1/10W	R572 R573	1-216-059-00 1-216-071-00		2.7K 8.2K	5% 5%	1/10W 1/10W
R504	1-216-111-91	RES.CHIP	390K	5%	1/10W	R575 R576	1-249-383-11 1-216-101-00		1.5 150K	5% 5%	1/4W F 1/10W
R505 R506	1-216-067-00 1-216-073-00	RES,CHIP	5.6K	5% 5%	1/10W 1/10W	R578		METAL CHIP	56K	0.50%	
R507	1-216-083-00	RES,CHIP	27K	5%	1/10W	R579	1-216-077-00	RES,CHIP	15 K	5%	1/10W 1/10W
R508	1-216-105-91	RES,CHIP	220K	5%	1/10W	R580 R582	1-216-105-91 1-216-085-00		220K 33K	5% 5%	1/10W 1/10W
R509 R510	1-216-089-91 1-216-097-91		47K 100K	5% 5%	1/10W 1/10W	R583	1-216-039-00	RES,CHIP	390	5%	1/10W
R511	1-216-099-00	RES,CHIP	120 K	5%	1/10W	R584	1-216-073-00		10 K	5%	1/10W
R512 R513	1-216-055-00 1-216-295-91		1.8 K 0	5%	1/10W	R585 R586		METAL CHIP	220 30 K	5% 0.50%	1/10W 1/10W
R514	1-216-295-91	SHORT	0			R587 R588	1-216-675-11 1-216-077-00	METAL CHIP RES,CHIP	10 K 15 K	0.50% 5%	1/10W 1/10W
R515 R516	1-216-675-11 1-216-097-91	METAL CHIP		0.50% 5%	1/10W 1/10W	R589	1-216-067-00		5.6K	5%	1/10W
R517	1-214-896-81	METAL	20K	1%	1/2W	R590	1-216-081-00	RES,CHIP	22K	5%	1/10W
R518	1-260-123-11			5%	1/2W	R591 R592	1-247-688-11		20 K 10	0.50% 5%	1/10W 1/4W F
R519 R520	1-216-017-91 1-249-423-11			5% 5%	1/10W 1/4W F	R593	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R521 R523	1-216-065-91	RES,CHIP METAL OXIDE		5% 5%	1/10W 2W F	R594 R595	1-247-713-11 1-216-689-11		1 K 39 K	5% 5%	1/4W 1/10W
R524	1-216-093-00			5%	1/10W	R596	1-214-754-00	METAL	11K	1%	1/4W
R525	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R597 R598	1-249-417-11 1-216-085-00		1K 33K	5% 5%	1/4W F 1/10W
R526 R527	1-216-089-91 1-216-089-91			5% 5%	1/10W 1/10W	R599	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R528 R529	1-216-089-91	RES,CHIP	47K	5%	1/10W	R1103	1-216-077-00	RES,CHIP	15K	5%	1/10W
	1-216-089-91			5%	1/10W	R1104 R1105	1-216-073-00		100K 10K	0.50% 5%	1/10W 1/10W
R530 R531	1-216-367-11 1-216-077-00	METAL OXIDE RES,CHIP		5% 5%	2W F 1/10W	R1106	1-216-097-91	RES,CHIP	100 K	5%	1/10W
R532 R533	1-215-916-00 1-247-723-11	METAL OXIDE		5% 5%	3W F 1/4W F	R1107 R1108	1-216-059-00	RES,CHIP METAL CHIP	2.7K 18K	5% 0.50%	1/10W 1/10W
R534	1-216-085-00			5%	1/10W	R1113	1-216-081-00	RES,CHIP	22K	5%	1/10W
R535	1-249-448-11			5%	1/4W F	R1123 R1125	1-216-071-00 1-216-049-91		8.2 K 1 K	5% 5%	1/10W 1/10W
R536 R537	1-216-101-00 1-216-089-91			5% 5%	1/10 W 1/10 W	R1126	1-216-041-00	RES.CHIP	470	5%	1/10W
R538 R539	1-215-916-00	METAL OXIDE	680	5%	3W F	R1128	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
	1-216-065-91	•		5%	1/10W	R1129 R1130	1-216-071-00 1-216-049-91	RES,CHIP	8.2K 1K	5% 5%	1/10W 1 1/10W
R540 R541	1-216-113-00 1-249-383-11	CARBON	1.5	5% 5%	1/10W 1/4W F	R1131	1-216-049-91	RES,CHIP	1K	5%	1/10W
R542 R543	1-216-057-00 1-212-883-00			5% 5%	1/10W 1/4W F	R1132 R1133	1-216-071-00 1-216-069-00		8.2K 6.8K	5% 5%	1/10W 1/10W
R544	1-216-095-00			5%	1/10W	R1134	1-216-073-00	RES,CHIP	10 K	5%	1/10W
R545	1-216-073-00			5%	1/10W	R1136 R1139	1-216-097-91 1-216-055-00		100 K 1.8 K	5% 5%	1/10W 1/10W
R546 R547	1-249-425-11 1-216-091-00			5% 5%	1/4W F 1/10W	R1140	1-216-653-11	METAL CHIP	1.2 K	0.50%	1/10W
R548	1-216-057-00			5%	1/10W	R1141	1-216-073-00		10 K	5%	1/10W



REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION		F	REMARK
R1142 R1143 R1146		METAL CHIP METAL CHIP RES,CHIP	1.2K 1.2K 2.2K	0.50% 0.50% 5%	1/10W 1/10W 1/10W	R1338 R1339 R1340 R1341	1-216-033-00 1-216-033-00 1-216-033-00	RES,CHIP RES,CHIP	680 220 220 220	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1147 R1150 R1151 R1155 R1163	1-216-057-00 1-216-037-00 1-216-081-00 1-216-133-00 1-216-033-00	RES,CHIP RES,CHIP RES,CHIP	2.2K 330 22K 3.3M 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1342 R1343 R1344 R1345	1-216-083-00 1-216-037-00 1-216-093-00 1-216-109-00	RES,CHIP RES,CHIP RES,CHIP	27K 330 68K 330K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1164 R1165 R1170 R1171	1-216-049-91 1-216-049-91 1-216-089-91 1-216-085-00	RES,CHIP RES,CHIP	1K 1K 47K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1346 R1347 R1348 R1349	1-216-097-91 1-216-073-00 1-216-071-00 1-216-035-00	RES,CHIP RES,CHIP	100K 10K 8.2K 270	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1172 R1174 R1177	1-216-085-00 1-216-089-91 1-216-071-00	RES,CHIP RES,CHIP RES,CHIP	33K 47K 8.2K	5% 5% 5%	1/10W 1/10W 1/10W	R1350 R1351 R1352	1-216-073-00 1-216-033-00 1-216-025-91	RES,CHIP RES,CHIP	10K 220 100	5% 5% 5%	1/10W 1/10W 1/10W
R1179 R1180 R1182	1-216-041-00 1-216-089-91 1-216-131-11	RES,CHIP RES,CHIP	470 47K 2.7M	5% 5% 5%	1/10W 1/10W 1/10W	R1353 R1354 R1355 R1356	1-216-065-91 1-216-089-91 1-216-033-00 1-216-105-91	RES,CHIP RES,CHIP RES,CHIP	4.7K 47K 220 220K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1183 R1184 R1185 R1186 R1187	1-216-071-00 1-216-131-11 1-216-071-00 1-216-131-11 1-216-071-00	RES,CHIP RES,CHIP RES,CHIP	8.2K 2.7M 8.2K 2.7M 8.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1357 R1358 R1359 R1360	1-216-101-00 1-216-071-00 1-216-099-00 1-216-065-91	RES,CHIP RES,CHIP	150K 8.2K 120K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1188 R1189 R1190	1-216-131-11 1-216-071-00 1-216-131-11	RES,CHIP RES,CHIP RES,CHIP	2.7M 8.2K 2.7M	5% 5% 5%	1/10W 1/10W 1/10W	R1361 R1362 R1363	1-216-113-00	METAL CHIP RES,CHIP	470K 11K 470K	5% 0.50% 5%	1/10W 1/10W 1/10W
R1191 R1192 R1193 R1194	1-216-071-00 1-216-131-11 1-216-025-91	RES,CHIP RES,CHIP	8.2K 2.7M 100 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1364 R1365 R1366 R1367	1-216-073-00 1-216-131-11 1-216-081-00 1-216-660-11	RES,CHIP	10K 2.7M 22K 2.4K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W
R1194 R1195 R1196 R1197	1-216-085-00 1-216-025-91 1-216-085-00 1-216-025-91	RES,CHIP RES,CHIP	100 33K 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1368 R1369 R1370 R1371	1-216-059-00 1-216-051-00 1-216-105-91 1-216-113-00	RES,CHIP RES,CHIP	2.7K 1.2K 220K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1198 R1303 R1304 R1305 R1306	1-216-085-00 1-216-073-00 1-216-689-11 1-216-033-00 1-216-645-11	RES,CHIP RES,CHIP	33K 10K 39K 220 560	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	R1372 R1373 R1374 R1375	1-216-089-91 1-216-063-91 1-216-101-00 1-216-645-11	RES,CHIP	47K 3.9K 150K 560	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W
R1307 R1308 R1309	1-216-091-00 1-216-645-11 1-216-025-91	RES,CHIP METAL CHIP RES,CHIP	56K 560 100	5% 0.50% 5%	1/10W 1/10W 1/10W	R1376 R1378 R1379	1-216-647-11 1-216-065-91 1-216-037-00	METAL CHIP RES,CHIP RES,CHIP	680 4.7 K 330	0.50% 5% 5%	1/10W 1/10W
R1310 R1311 R1312	1-216-057-00 1-216-089-91 1-216-027-00	RES,CHIP	2.2K 47K 120	5% 5%	1/10W 1/10W 1/10W	R1380 R1381 R1382 R1383	1-216-647-11 1-216-073-00	METAL CHIP METAL CHIP RES,CHIP METAL CHIP	560 680 10K 18K	0.50% 0.50% 5% 0.50%	1/10W 1/10W 1/10W 1/10W
R1313 R1314 R1315 R1316	1-216-097-91 1-216-081-00 1-216-073-00 1-216-065-91	RES,CHIP RES,CHIP	100K 22K 10K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1384 R1385 R1386 R1387	1-216-091-00 1-216-073-00 1-216-077-00 1-216-653-11	RES,CHIP	56K 10K 15K 1.2K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W
R1317 R1318 R1319 R1320 R1321	1-216-033-00 1-216-089-91 1-216-085-00 1-216-057-00 1-216-649-11	RES,CHIP RES,CHIP	220 47K 33K 2.2K 820	5% 5% 5% 5% 0,50%	1/10W 1/10W 1/10W 1/10W 1/10W	R1388 R1389 R1390 R1391	1-216-657-11	METAL CHIP METAL CHIP METAL CHIP RES.CHIP	39K 1.8K 680 100	0.50% 0.50% 0.50% 5%	1/10W 1/10W 1/10W 1/10W
R1322 R1324 R1325	1-216-057-00 1-216-061-00	RES,CHIP	2.2K 3.3K 1.1K	5% 5% 0.50%	1/10W 1/10W 1/10W	R1392 R1393 R1394	1-216-041-00 1-216-063-91 1-216-041-00	RES,CHIP	470 3.9 K 470	5% 5% 5%	1/10W 1/10W
R1326 R1327 R1328	1-216-073-00 1-216-073-00 1-216-125-00	RES,CHIP RES,CHIP	10K 10K 1.5M	5% 5%	1/10W 1/10W 1/10W	R1395 R1396 R1397 R1399	1-216-071-00 1-216-071-00 1-216-065-91 1-216-073-00	RES,CHIP RES,CHIP RES,CHIP	8.2K 8.2K 4.7K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R1329 R1330 R1331 R1332			180K 22K 15K 6.8K	5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W	R1401 R1402 R1403 R1404			33K 0 1K 18K	5% 0.50% 0.50%	1/10W 1/10W 1/10W
R1333 R1334 R1335 R1336 R1337	1-216-049-91 1-216-063-91 1-249-401-11 1-216-095-00 1-216-061-00	RES,CHIP CARBON RES,CHIP	1K 3.9K 47 82K 3.3K	5% 5% 5% 5% 5%	1/10W 1/10W 1/4W F 1/10W 1/10W	R1405 R1406 R1407 R1408 R1409	1-216-071-00	RES,CHIP METAL CHIP RES,CHIP RES,CHIP	8.2K 1.2K 3.9K 470K	0.50% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W



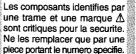
Les composants identifies par une trame et une marque \(\triangle \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

						A.						
REF. NO.	PART NO.	DESCRIPTION		Ē	REMARK	REF. NO.	PART NO.	DESCRIPTION		Ī	REMARK	<u> </u>
R1410	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R1480 R1481	1-216-089-91 1-216-115-00	.,.	47K 560K	5% 5%	1/10W 1/10W	
R1411 R1412	1-216-073-00 1-216-107-00		10K 270K	5% 5%	1/10W 1/10W	R1482	1-216-089-91	RES,CHIP	47 K	5%	1/10W	
R1413	1-216-081-00	RES,CHIP	22K	5%	1/10W	R1483	1-216-089-91	RES,CHIP	47K	5%	1/10W	,
R1414	1-216-057-00		2.2K	5%	1/10W	R1484	1-216-081-00		22K	5%	1/10W	
R1415	1-216-093-00	RES,CHIP	68 K	5%	1/10W	R1485 R1486	1-216-113-00		470K 100K	5%	1/10W	
R1416	1-216-113-00	RES.CHIP	470K	5%	1/10W	R1487	1-216-097-91 1-216-097-91	RES.CHIP	100K	5% 5%	1/10W 1/10W	
R1417	1-216-033-00		220	5%	1/10W	111.0.	1 210 07, 71	ALO, CITI	10011	370	171011	
R1418	1-216-033-00		220	5%	1/10W	R1488	1-216-083-00		27K	5%	1/10W	
R1419 R1420	1-216-025-91 1-216-089-91		100 47K	5% 5%	1/10W 1/10W	R1490 R1491	1-216-035-00 1-216-035-00	RES,CHIP	270 270	5%	1/10W	,
K1420	1-210-069-91	RES,CITT	7/K	370	1/10**	R1491 R1492	1-216-035-00		270 270	5% 5%	1/10W 1/10W	
R1421		METAL CHIP	820	0.50%	1/10W	R1493	1-216-083-00		27K	5%	1/10W	
R1422	1-216-085-00		33K	5%	1/10W	71404		DEG G****				_
R1423 R1424	1-216-057-00 1-216-081-00		2.2K 22K	5% 5%	1/10W 1/10W	R1494 R1495	1-216-081-00 1-216-089-91		22K 47K	5% 5%	1/10W 1/10W	
R1425	1-216-013-00		33	5%	1/10W	R1496	1-216-089-91		47K	5%	1/10W	
						R1498	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R1426	1-216-113-00		470K	5%	1/10W	R1500	1-216-649-11	METAL CHIP	820	0.50%	1/10W	
R1427 R1428	1-216-061-11	METAL CHIP	18K 3.3K	0.50% 5%	1/10W 1/10W	R1501	1-216-071-00	BES CHID	8.2K	5%	1/10W	
R1429		METAL CHIP	5.1K	0.50%	1/10W	R1502	1-260-111-11		10K	5%	1/2W	
R1430	1-216-073-00	RES,CHIP	10 K	5%	1/10W	R1503	1-216-063-91		3.9K	5%	1/10W	
R1431	1-216-129-00	DEC CHID	2.2M	5%	1/10W	R1504 R1505	1-216-686-11 1-247-688-11	METAL CHIP	30K 10	0.50%	1/10W	
R1432	1-216-089-91		47K	5%	1/10W	K1303	1-247-000-11	CARBON	10	5%	1/4W	r
R1433	1-216-085-00	RES,CHIP	33K	5%	1/10W	R1506	1-216-041-00		470	5%	1/10W	
R1434		METAL CHIP	560	0.50%	1/10W	R1507	1-216-065-91		4.7K	5%	1/10W	
R1435	1-216-055-00	KES,CHIP	1.8K	5%	1/10W	R1508 R1510	1-216-689-11 1-216-077-00		39K 15K	5% 5%	1/10W 1/10W	
R1436	1-216-073-00	RES,CHIP	10 K	5%	1/10W	R1511		METAL OXIDE		5%		F
R1437	1-216-069-00	RES,CHIP	6.8K	5%	1/10W							_
R1438 R1439	1-216-073-00 1-216-059-00		10K 2.7K	5% 5%	1/10W 1/10W	R1512 R1513	1-216-647-11 1-247-752-11	METAL CHIP	680	0.50%	1/10W	
R1440	1-216-039-00		470	5%	1/10W	R1513	1-247-732-11		1 K 680	5% 5%	1/2W 1/4W	
						R1515		METAL OXIDE	1.2	5%	iw	F
R1441	1-216-033-00		220	5%	1/10W	R1517	1-216-109-00	RES,CHIP	330K	5%	1/10W	
R1442 R1443	1-216-073-00 1-216-013-00		10K 33	5% 5%	1/10W 1/10W	R1518	1-215-867-00	METAL OXIDE	470	5%	1 W	F
R1444	1-216-057-00		2.2K	5%	1/10W	R1519		METAL OXIDE		5%	1W	F
R1445	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	R1520	1-216-027-00		120	5%	1/10W	
R1446	1-216-071-00	DES CHID	8.2K	5%	1/10W	R1521 R1523	1-216-029-00	RES,CHIP METAL OXIDE	150	5% 5%	1/10W 1W	F
R1447	1-216-071-00		22K	5%	1/10W	K1323	1-210-330-11	METAL OAIDE	1.2	370	1 44	Г
R1448	1-216-085-00		33K	5%	1/10W	R1524		METAL OXIDE		5%	1 W	F
R1449 R1450	1-216-057-00 1-216-129-00		2.2K 2.2M	5% 5%	1/10W 1/10W	R1525 R1526	1-216-083-00 1-216-089-91		27K 47K	5% 5%	1/10W 1/10W	
K1450	1-210-125-00	RLO,CIIII	2.2111	570	1/10**	R1527	1-249-413-11		470	5%	1/10W 1/4W	
R1451	1-216-093-00		68K	5%	1/10W	R1528	1-215-869-11	METAL OXIDE		5%		F
R1452	1-216-085-00	D DO CYYTD	33 K 33	5%	1/10W	R1529	1-202-829-11	cot in	0 AV	200	1 /0337	
R1453 R1454	1-216-013-00 1-216-065-91		4.7K	5% 5%	1/10W 1/10W	R1530	1-216-115-00		8.2K 560K	20% 5%	1/2W 1/10W	
R1455	1-216-113-00		470K	5%	1/10W	R1531	1-247-697-11		56	5%	1/4W	
R1456	1-216-129-00	DEC CHID	2.2M	5%	1/10W	R1532 R1533	1-216-059-00		2.7K	5%	1/10W	
R1457	1-216-089-91		47K	5%	1/10W	K1333	1-249-414-11	CARBON	560	5%	1/4W	r
R1458	1-216-085-00	RES,CHIP	33K	5%	1/10W	R1534	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R1459 R1460	1-216-133-00 1-216-097-91		3.3M 100K	5% 5%	1/10 W 1/10 W	HR1536 A	\ 1-249-389-11	METAL CHIP	47	<i>E 01</i>	1/10W	
K1400	1-210-097-91	RES,CHIP	TOOK	370	1/10**	R1537	1-249-389-11		4.7 10K	5% 5%	1/4W 1/10W	
R1461		METAL CHIP	560	0.50%	1/10W	R1540	1-216-105-91		220K	5%	1/10W	
R1462 R1463		METAL CHIP	560	0.50%	1/10W	D1541	1 216 001 00	DEC CIMD	2017	-~	1 /1 0337	
R1463 R1464	1-216-043-11	METAL CHIP	560 2.2K	0.50% 5%	1/10W 1/10W	R1541 R1543	1-216-081-00 1-216-027-00		22K 120	5% 5%	1/10W 1/10W	
R1465	1-216-097-91		100K	5%	1/10W	R1547	1-216-391-11	METAL OXIDE		5%		F
D1466	1 216 055 00	DEC CUID	1.077	- m	1/10331	R1548	1-216-057-00		2.2K	5%	1/10W	
R1466 R1467	1-216-055-00 1-216-073-00		1.8 K 10 K	5% 5%	1/10 W 1/10 W	R1549	1-260-094-11	CARBON	390	5%	1/2W	
R1468	1-216-091-00		56K	5%	1/10W	R1550	1-216-105-91	RES,CHIP	220K	5%	1/10W	
R1469	1-216-057-00		2.2K	5%	1/10W	R1551	1-249-393-11		10	5%	1/4W	
R1470	1-216-061-00	KES,CHIP	3.3 K	5%	1/10W	R1552 R1553	1-216-091-00 1-216-091-00		56K 56K	5% 5%	1/10W 1/10W	
R1471	1-216-049-91		1 K	5%	1/10W	R1554	1-216-059-00		2.7K	5%	1/10W	
R1472	1-216-085-00		33K	5%	1/10W	D1555	1.01/.007.01	CHODT	0			
R1473 R1475	1-216-081-00 1-216-677-11	METAL CHIP	22 K 12 K	5% 0.50%	1/10W 1/10W	R1555 R1556	1-216-295-91 1-216-071-00		0 8.2K	5%	1/10W	
R1476	1-216-063-91		3.9K	5%	1/10W	R1557		METAL CHIP	220K	0.50%	1/10W	
R1477			2 25	501	1/1037	R1558	1-249-393-11		10	5%	1/4W	
R1477	1-216-057-00 1-216-061-00		2.2K 3.3K	5% 5%	1/10W 1/10W	R1559	1-249-393-11	CAKBON	10	5%	1/4 W	r
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1.66 1.66 1.69 P. RESCHIP IX 54 1/10W 2235 1.216 616 0.0 RESCHIP 3.3 K 5% 1/10W 1.216 616	REF. NO.	PART NO.	DESCRIPTION		D	EMARK !	REF. NO.	PART NO.	DESCRIPTION		R	EMARK
1156 1-216-097-0 RESCHIP 47K 58 1/10W R2365 1-216-03-0 RESCHIP 100 59 1/10W R2365 1-216-03-0 RESCHIP 100										2.21/		
R1565 1-16-09-91 RESCHIP 47K 5% 1/10W R1565 1-16-01-00 RESCHIP 47K 5% 1/10W R1565 1-16-01-100 RESCHIP 47K 5% 1/10W R1565 1-16-01-100 RESCHIP 47K 5% 1/10W R1561 1-16-07-30 RESCHIP 1/10W 5% 1/10W R1561 1-16-07-30 RESCHIP 1/10W 5% 1/10W R1561 1-16-07-30 RESCHIP 1/10W 1/10W R1561 1-16-07-30 RESCHIP 1/10W 1/10W R1561 1-16-07-30 RESCHIP 1/10W R1561 1-16-05-51 RESCHIP 1/10W R1561							R2352	1-216-061-00	RES,CHIP	3.3K	3%	1/10W
1156	R1562	1-216-089-91	RES,CHIP	47K	5%	1/10W						
R1579												
1.15							R2361		'			
R1757 1-216-103-00 RES.CHIP 160K 5% 1710W R2364 1-216-603-91 RES.CHIP 47K 5% 1710W R2364 1-216-603-91 RES.CHIP 100K 5% 1710W R2361 1-216-603-91 RES.CHIP 100K							K2302	1-210-061-00	RES,CHIP	22 K	370	1/10 **
R1572 1-216-03-30 RES.CHIP 100	R1571	1-216-103-00	RES,CHIP	180K	5%	1/10W						
R1574 1-216-641-10 RES.CHIP												
R1375 1-216-023-91 RES.CHIP 100 5% 1/10W R2377 1-216-023-91 RES.CHIP 100K 5% 1/10W R2377 1-216-025-91 RES.CHIP 100K 5% 1/10W R2377 1-216-05-91 RES.CHIP 100K 5% 1/10W R2367 1-216-05-91 METAL CHIP 39K 5% 1/10W R2367 1-216-05-91 METAL CHIP 39K 5% 1/10W R2377 1-216-13-00 RES.CHIP 47K 5% 1/10W R2378 1-216-03-90 RES.CHIP 100K 5% 1/10W R2379 1-216-03-90 RES.CHIP 100K 5% 1/10W R2379 1-216-03-90 RES.CHIP 47K 5% 1/10W R2380 1-216-03-90 RES.CHIP 47K 5% 1/10W R2381 1-216-03-90 RES.CHIP 10K 5% 1/10W R2381 1-216-03-90 RES.CHIP 10K 5%							R2366	1-216-067-00	RES,CHIP	5.6K	5%	
R1577 1-216-025-91 RES.CHIP							R2367	1-216-097-91	RES,CHIP	100K	3%	1/10W
R1579	R1576	1-216-025-91	RES,CHIP	100	5%	1/10W		1-216-065-91	RES,CHIP			
R1579 1-216-689-11 METAL CHIP 39K 0.50% 1/10W R2375 1-216-091-09 RES, CHIP 470K 5% 1/10W R2375 1-216-091-09 RES, CHIP 470K 5% 1/10W R2375 1-216-091-09 RES, CHIP 47K 5% 1/10W R2395 1-216-091-09 RES, CHIP 47K 5												
R1596 1-216-09-00 RES.CHIP 470 5% 1/10W R2306 1-216-09-00 RES.CHIP 47K 5% 1/10W R2300 1-216-05-90 RES.CHIP 47K 5% 1/10W R2301 1-216-08-90 RES.CHIP 47K 5% 1/10W R2306 1-216-08-90 RES.CHIP 47K 5% 1/10W R2308 1-216-08-90 RES.CHIP 47K 5% 1/10W R2309 1-216-08-90 RES.CHIP 680 0.50% 1/10W R2309 1-216-08-90 RES.CHIP 10K 5% 1/10W R2309 1-216-08-90 RES.CHIP 47K 5% 1/10W R2309 1-216-08-90 RES.CHIP 47K 5% 1/10W R2309 1-216-08-90 RES.CHIP 10K 5% 1/10W R2309 1-216-08-90 RES.CHIP 47K 5% 1/10W R2309 1-216-08-90 RES.CHIP 10K 5% 1/10W R2309 1-216-08-90 RES.CHIP 47K 5% 1/10W R2309 1-216-08-90 RES.CHIP 10K 5% 1/10W R2309 1-216-08-90 RES.CHIP 10K 5% 1/10W R2309 1-216-08-90 RES.CHIP 10K 5% 1/10W R2309 1-216-09-90 RES.CHIP 10K 5% 1/10W R2309 1-216-09-90 RES.CHIP 10K 5% 1/10W R23							R2372	1-216-113-00	RES,CHIP	470K		
R1596 1-216-095-00 RES.CHIP 47K 5% 1/10W R2301 1-216-085-91 RES.CHIP 47K 5% 1/10W R2301 1-216-065-91 RES.CHIP 47K 5% 1/10W R2301 1-216-065-91 RES.CHIP 47K 5% 1/10W R2301 1-216-095-00 RES.CHIP 47K 5% 1/10W R2303 1-216-093-00 RES.CHIP 47K 5% 1/10W R2303 1-216-093-00 RES.CHIP 47K 5% 1/10W R2305 1-216-093-01 RES.CHIP 37K 5% 1/10W R2309 1-216-093-01 RES.CHIP 37K 5% 1/10W R2309 1-216-093-01 RES.CHIP 37K 5% 1/10W R2309 1-216-093-00 RES.CHIP 37K 5% 1/10W R2309 1-216-093-00 RES.CHIP 37K 5% 1/10W R2309 1-216-093-00 RES.CHIP 47K 5% 1/10W R2309 1-216-093-00 RES.CHIP 57K 5% 1/10W R2301 1-216-093-00 RES.CHIP 57K 5% 1/							R2374	1-216-097-91	RES,CHIP	100K	3%	1/10W
R2301 1-216-03-90 RES.CHIP 4.7K 5% 1/10W R2307 1-216-03-90 RES.CHIP 47K 5% 1/10W R2307 1-216-03-90 RES.CHIP 20K 5% 1/10W R2308 1-216-03-90 RES.CHIP 20K 5% 1/10W R2309 1-216-03-90 RES.CHIP 1/10W 1/10W 1/10W 1/10W 1/	R1596	1-216-099-00	RES,CHIP	120K	5%	1/10W						
R2302 1-216-671-11 METAL CHIP 6.8K 0.50% 1/10W R2303 1-216-093-00 RES,CHIP 220 5% 1/10W R2305 1-216-093-00 RES,CHIP 220 5% 1/10W R2305 1-216-083-00 RES,CHIP 270 5% 1/10W R2305 1-216-083-00 RES,CHIP 47K 5% 1/10W R2305 1-216-083-00 R												
R2303 1-216-093-00 RESCHIP 68K 5% 1/10W R2305 1-216-088-91 RESCHIP 47K 5% 1/10W R2305 1-216-088-90 RESCHIP 33K 5% 1/10W R2381 1-216-088-91 RESCHIP 47K 5% 1/10W R2305 1-216-089-91 RESCHIP 47K 5% 1/10W R2308 1-216-089-91 RESCHIP 47K 5% 1/10W R2308 1-216-033-00 RESCHIP 20 5% 1/10W R2301 1-216-033-00 RESCHIP 10K 5% 1/10W	K2301	1-210-003-91	RES,CIII	T./ J.			R2378			47K	5%	1/10W
R2304 1.216-085-09 RES,CHIP 220K 5% 1/10W R2380 1.216-089-91 RES,CHIP 47K 5% 1/10W R2360 1.216-089-91 RES,CHIP 47K 5% 1/10W R2362 1.216-089-91 RES,CHIP 47K 5% 1/10W R2362 1.216-089-91 RES,CHIP 47K 5% 1/10W R2363 1.216-039-91 RES,CHIP 220 5% 1/10W R2363 1.216-039-91 RES,CHIP 10K 5% 1/10W R2364 1.216-039-90 RES,CHIP 10K 5% 1/10W R2365 1.216-039-90 RES,CHIP							R2379	1-216-033-00	RES,CHIP	220	5%	1/10W
R2306 1-216-089-91 RES.CHIP 47K 5% 1/10W R2308 1-216-039-00 RES.CHIP 200 5% 1/10W R2308 1-216-039-00 RES.CHIP 200 5% 1/10W R2309 1-216-049-91 RES.CHIP 210K 5% 1/10W R2309 1-216-059-00 RES.CHIP 1K 5% 1/10W R2309 1-216-059-00 RES.CHIP 220 5% 1/10W R2319 1-216-059-00 RES.CHIP 220 5% 1/10W R2319 1-216-059-00 RES.CHIP 220 5% 1/10W R2319 1-216-059-00 RES.CHIP 10K 5% 1/10W R2319 1-216-079-00 RES.CHIP 10K 5% 1/10W R2319 1-216-089-00 RES.CHIP 10K 5% 1/10W R2319 1-216-099-00 RES.CHIP 10K 5% 1/10W R2319 1-216-099-00 RES.CHIP 10K 5% 1/10W R2329 1-216-099-00 RES.CHIP 22K 5% 1/10W R2329 1-216-099-00 RES.CHIP 22K 5% 1/10W R2329 1-216-099-00 RES.CHIP 10K 5% 1/10W R2329 1-216-099-00 RES.CHI							R2380			47K	5%	
R2307 1-216-033-00 RES,CHIP 220 5% 1/10W R2308 1-216-033-00 RES,CHIP 39K 5% 1/10W R2309 1-216-049-91 RES,CHIP 180K 5% 1/10W R2309 1-216-059-00 RES,CHIP 82K 5% 1/10W R2309 1-216-049-91 RES,CHIP 680 0.50% 1/10W R2301 1-216-059-00 RES,CHIP 15K 5% 1/10W R2309 1-216-047-11 METAL CHIP 680 0.50% 1/10W R2301 1-216-059-00 RES,CHIP 15K 5% 1/10W R2309 1-216-047-11 METAL CHIP 680 0.50% 1/10W R2301 1-216-049-01 RES,CHIP 15K 5% 1/10W R2301 1-216-047-10 RES,CHIP 10K 5% 1/10W R2301 1-216-049-01 RES,CHIP 15K 5% 1/10W R2309 1-216-047-00 RES,CHIP 10K 5% 1/10W R2301 1-216-049-01 RES,CHIP 15K 0.50% 1/10W R2309 1-216-049-00 RES,CHIP 10K 5% 1/10W R2301 1-216-081-00 RES,CHIP 15K 0.50% 1/10W R2309 1-216-041-00 RES,CHIP 10K 5% 1/10W R2301 1-216-081-00 RES,CHIP 12K 0.50% 1/10W R2309 1-216-041-00 RES,CHIP 470K 5% 1/10W R2301 1-216-081-00 RES,CHIP 10K 5% 1/10W R2301 1-216-090-00 RES,CHIP 22K 5% 1/10W R2301 1-216-090-00 RES,CHIP 10K 5% 1/10W R2301 1-216-090-00 RES,CHIP 10K 5% 1/10W R2301 1-216-090-00 RES,CHIP 22K 5% 1/10W R2501 1-216-080-00 RES,CHIP 10K 5% 1/10W R2301 1-216-090-00 RES,CHIP 10K 5% 1/10W R2301 1-216-090-00 RES,CHIP 22K 5% 1/10W R2501 1-216-080-00 RES,CHIP 10K 5% 1/10W R2301 1-216-090-00 RES,CHIP 10K 5% 1/10W R2301												
R2308 1-216-03-00 RES.CHIP 180K 5% 1/10W R2390 1-216-03-300 RES.CHIP 680 0.50% 1/10W R2391 1-216-05-00 RES.CHIP 10K 5% 1/10W R2390 1-216-647-11 METAL CHIP 680 0.50% 1/10W R2391 1-216-05-300 RES.CHIP 10K 5% 1/10W R2390 1-216-647-11 METAL CHIP 680 0.50% 1/10W R2391 1-216-05-300 RES.CHIP 10K 5% 1/10W R2391 1-216-05-300 RES.CHIP 22K 1/10W R2391 1-216-05-300 RES.CHIP 22K 1/10W R2391 1-216-05-300 RES.CHIP 22K 5% 1/10W R2391 1-216-05-300 RES.CHIP 10K 5% 1/10W R2391 1-216-05-300 RES.CHIP 22K 5% 1/10W R2391 1-216-05-300 RES.CHIP 22K 5% 1/10W R2301 1-216-05-300 RES.CHIP 30K 5% 1/10W R2301 1-216-05-300 RES.CHIP 22K 5% 1/10W R2301 1-216-05-300 RES.CHIP 30K 5% 1/10W R2	K2300	1-210-089-91	RES,CHIP	4/K	370	1/10W				220		1/10W
R2310 1-216-09-91 RES,CHIP							R2384	1-216-689-11	RES,CHIP	39 K	5%	1/10 W
R2311 1-216-073-00 RES.CHIP 10K 5% 1/10W R2391 1-216-647-11 METAL.CHIP 680 0.50% 1/10W R2391 1-216-039-00 RES.CHIP 10K 5% 1/10W R2391 1-216-039-00 RES.CHIP 10K 5% 1/10W R2391 1-216-647-11 METAL.CHIP 10K 5% 1/10W R2391 1-216-647-11 METAL.CHIP 10K 5% 1/10W R2391 1-216-647-11 METAL.CHIP 10K 5% 1/10W R2391 1-216-649-11 METAL.CHIP 15K 0.50% 1/10W R2391 1-216-649-10 RES.CHIP 2K 5% 1/10W R2391 1-216-691-00 RES.CHIP 2K 5% 1/10W R2391 1-216-691-00 RES.CHIP 2K 5% 1/10W R2391 1-216-049-91 RES.CHIP 10K 5% 1/10W R2391 1-216-049-91 RES.CHIP 12K 0.50% 1/10W R2392 1-216-073-00 RES.CHIP 2K 5% 1/10W R2392 1-216-697-00 RES.CHIP 2K 5% 1/10W R2392 1-216-067-00 RES.CHIP 2K 5% 1/10W R2392 1-216-065-91 RES.CHIP 2K 5% 1/10W R2392 1-216-065-91 RES.CHIP 2K 5% 1/10W R2302 1-216-063-11 METAL.CHIP 2K 0.50% 1/10W R2302 1-216-063-11 METAL.CHIP 2K 0.50% 1/10W R2302 1-216-063-91 RES.CHIP 1/10W R2302 1-216-063-91 RES.CHIP 1/10W R2303 1-216-063-91 RES.CHIP 1/10W R2303 1-216-063-91 RES.CHIP 1/10W R2303 1-216-039-00 RES.CHIP 1/10W R2303							R2389	1-216-033-00	RES,CHIP		5%	
R2312 1-216-033-00 RES,CHIP 1.5K 5% 1/10W R2391 1-216-073-00 RES,CHIP 10K 5% 1/10W R2391 1-216-073-00 RES,CHIP 22K 5% 1/10W R2391 1-216-073-00 RES,CHIP 470K 5% 1/10W R2391 1-216-073-00 RES,CHIP 10K 5% 1/10W R2392 1-216-073-00 RES,CHIP 27K 5% 1/10W R2392 1-216-073-00 RES,CHIP 10K 5% 1/10W R2393 1-216-073-00 RES,CHIP 10K 5% 1/10W	R2310	1-216-095-00	RES,CHIP									
R2313 216-049-91 RES.CHIP 560 0.50% 1/10W R2394 1-216-081-00 RES.CHIP 22K 5% 1/10W R2315 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2396 1-216-041-00 RES.CHIP 470 5% 1/10W R2315 1-216-081-00 RES.CHIP 27K 5% 1/10W R2397 1-216-110-08 RES.CHIP 470 5% 1/10W R2315 1-216-049-91 RES.CHIP 15K 0.50% 1/10W R2397 1-216-110-00 RES.CHIP 30K 5% 1/10W R2318 1-216-069-00 RES.CHIP 68K 5% 1/10W R2318 1-216-069-00 RES.CHIP 68K 5% 1/10W R2320 1-216-077-11 METAL CHIP 12K 0.50% 1/10W R2320 1-216-077-00 RES.CHIP 2.2K 5% 1/10W R2321 1-216-063-91 RES.CHIP 2.2K 5% 1/10W R2322 1-216-063-91 RES.CHIP 2.2K 5% 1/10W R2323 1-216-063-91 RES.CHIP 2.2K 5% 1/10W R2323 1-216-063-91 RES.CHIP 2.2K 5% 1/10W R2323 1-216-063-91 RES.CHIP 10K 5% 1/10W R2323 1-216-063-91 RES.CHIP 27K 5% 1/10W R2322 1-216-063-91 RES.CHIP 10K 5% 1/10W R2322 1-216-063-91 RES.CHIP 27K 5% 1/10W R2323 1-216-049-91 RES.CHIP 470 4	K2311	1-216-0/3-00	RES,CHIP	IUK	3%	1/10W						
R2314 1216-645-11 METAL CHIP 56K 0.50% 1/10W R2394 1-216-01-00 RES,CHIP 27K 5% 1/10W R2316 1-216-081-00 RES,CHIP 22K 5% 1/10W R2397 1-216-113-00 RES,CHIP 470K 5% 1/10W R2397 1-216-113-00 RES,CHIP 470K 5% 1/10W R2398 1-216-109-00 RES,CHIP 30K 5% 1/10W R2391 1-216-093-00 RES,CHIP 6.8K 5% 1/10W R2391 1-216-093-00 RES,CHIP 12K 0.50% 1/10W R2391 1-216-093-00 RES,CHIP 12K 0.50% 1/10W R2391 1-216-057-00 RES,CHIP 22K 5% 1/10W R2392 1-216-057-00 RES,CHIP 22K 5% 1/10W R2392 1-216-057-00 RES,CHIP 22K 5% 1/10W R2392 1-216-057-00 RES,CHIP 10K 5% 1/10W R2392 1-216-057-00 RES,CHIP 10K 5% 1/10W R2392 1-216-057-00 RES,CHIP 10K 5% 1/10W R2392 1-216-041-00 RES,CHIP 3 9K 5% 1/10W R2392 1-216-041-00 RES,CHIP 3 9K 5% 1/10W R2393 1-216-049-00 RES,CHIP 27K 5% 1/10W R2393 1-216-049-00 RES,CHIP 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								1-216-073-00	RES,CHIP	10 K	5%	1/10 W
R2315 1-216-679-11 METAL CHIP							R2394	1-216-081-00	RES,CHIP		5%	1/10W
R2317 1-216-049-91 RES,CHIP 1K 5% 1/10W R2318 1-216-069-00 RES,CHIP 68K 5% 1/10W R2319 1-216-099-00 RES,CHIP 68K 5% 1/10W R2319 1-216-093-00 RES,CHIP 68K 5% 1/10W R2319 1-216-083-00 RES,CHIP 27K 5% 1/10W R2321 1-216-057-00 RES,CHIP 22K 5% 1/10W R2321 1-216-057-00 RES,CHIP 22K 5% 1/10W R2322 1-216-057-00 RES,CHIP 22K 5% 1/10W R2323 1-216-0683-11 METAL CHIP 12K 0.50% 1/10W R2323 1-216-0683-11 METAL CHIP 12K 0.50% 1/10W R2323 1-216-0683-11 METAL CHIP 22K 0.50% 1/10W R2324 1-216-073-00 RES,CHIP 10K 5% 1/10W R2324 1-216-0673-00 RES,CHIP 39K 5% 1/10W R2325 1-216-063-19 RES,CHIP 39K 5% 1/10W R2326 1-216-041-00 RES,CHIP 39K 5% 1/10W R2326 1-216-041-00 RES,CHIP 470 5% 1/10W R2321 1-216-059-00 RES,CHIP 10K 5% 1/10W R2323 1-216-049-91 RES,CHIP 1 K 5% 1/10W R2323 1-216-049-91 RES,CHIP 1 K 5% 1/10W R2333 1-216-049-91 RES,CHIP 27K 5% 1/10W R2333 1-216-049-91 RES,CHIP 3 30 5% 1/10W R2333 1-216-05-00 RES,CHIP 3 30 5% 1/10W R2333 1-216-06-00-00 RES,CHIP 3 30 5% 1/10W R3333 1-216-06-00-00 RES,CHIP 3 30 5% 1/10W R3333 1-216-06-00-00 RES,CHIP 3 30 5% 1/10W R3331 1-216-06-00-00 RES,CHIP 3 30	R2315	1-216-679-11	METAL CHIP	15 K	0.50%	1/10W	R2396	1-216-041-00	RES,CHIP			
R2317 1-216-049-91 RES,CHIP 6.8K 5% 1/10W R2319 1-216-093-00 RES,CHIP 6.8K 5% 1/10W R2319 1-216-093-00 RES,CHIP 6.8K 5% 1/10W R2320 1-216-677-11 METAL CHIP 12K 0.50% 1/10W R2321 1-216-057-00 RES,CHIP 2.2K 5% 1/10W R2321 1-216-057-00 RES,CHIP 2.2K 5% 1/10W R2322 1-216-065-91 RES,CHIP 2.2K 0.50% 1/10W R2323 1-216-6683-11 METAL CHIP 2.2K 0.50% 1/10W R2323 1-216-6683-11 METAL CHIP 2.2K 0.50% 1/10W R2322 1-216-063-90 RES,CHIP 39K 5% 1/10W R2322 1-216-063-91 RES,CHIP 39K 5% 1/10W R2322 1-216-063-91 RES,CHIP 47W 5% 1/10W R2307 1-216-059-00 RES,CHIP 47W 5% 1/10W R2307 1-216-059-00 RES,CHIP 47W 5% 1/10W R2307 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2323 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2323 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2330 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2330 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2331 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2331 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2331 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2333 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2333 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2333 1-216-049-91 RES,CHIP 3.5K 5% 1/10W R2333 1-216-059-00 RES,CHIP 3.5K 5% 1/10W R2334 1-216-037-00 RES,CHIP 3.5K 5% 1/10W R2334 1-216-037-00 RES,CHIP 3.5K 5% 1/10W R2334 1-216-037-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-061-00 RES,CHIP 3.5K 5% 1/10W R3333 1-216-061-00 RES,CHIP 3.5K 5% 1/10W R3334 1-216-061-00 RES,CHIP 3.5K 5% 1/10W R3331 1-216-061-	R2316	1-216-081-00	RES,CHIP	22K	5%	1/10W						
R2319 1-216-093-00 RES,CHIP 68K 5% 1/10W R2321 1-216-057-00 RES,CHIP 12K 0.50% 1/10W R2321 1-216-057-00 RES,CHIP 22K 5% 1/10W R2321 1-216-057-00 RES,CHIP 2.2K 5% 1/10W R2323 1-216-065-91 RES,CHIP 2.2K 0.50% 1/10W R2323 1-216-065-91 RES,CHIP 10K 5% 1/10W R2324 1-216-063-91 RES,CHIP 10K 5% 1/10W R2324 1-216-063-91 RES,CHIP 10K 5% 1/10W R2325 1-216-063-91 RES,CHIP 30K 5% 1/10W R2325 1-216-063-91 RES,CHIP 470 5% 1/10W R2326 1-216-049-91 RES,CHIP 10K 5% 1/10W R2326 1-216-049-91 RES,CHIP 10K 5% 1/10W R2323 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2556 1-216-055-00 RES,CHIP 1.8K 5% 1/10W R2333 1-216-041-00 RES,CHIP 3.3K 5% 1/10W R2333 1-216-041-00 RES,CHIP 3.3K 5% 1/10W R2333 1-216-055-00 RES,CHIP 2.7K 5% 1/10W R2333 1-216-055-00 RES,CHIP 3.3K 5% 1/10W R2334 1-216-037-00 RES,CHIP 3.3K 5% 1/10W R2334 1-216-057-00 RES,CHIP 3.3K 5% 1/10W R2334 1-216-057-00 RES,CHIP 3.3K 5% 1/10W R2334 1-216-057-00 RES,CHIP 3.3K 5% 1/10W R2334 1-216-037-00 RES,CHIP 3.3B 5% 1/10W R2334 1-216-037-00 RES,CHIP 3.3B 5% 1/10W R2334 1-216-065-91 RES,CHIP 3.3K 5% 1/10W R2334 1-216-065-00 RES,CHIP 3.3K 5% 1/10W R2334 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3301 1-216-065-91 RES,CHIP 4/K 5% 1/10W R2334 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3301 1-216-065-91 RES,CHIP 4/K 5% 1/10W							R2399			10 K	5%	1/10 W
R2320							R2501	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2322 1-216-65-91 RES,CHIP 4.7K 5% 1/10W R2303 1-216-683-11 METAL CHIP 22K 0.50% 1/10W R2323 1-216-683-11 METAL CHIP 22K 0.50% 1/10W R2323 1-216-693-91 RES,CHIP 10K 5% 1/10W R2325 1-216-603-91 RES,CHIP 10K 5% 1/10W R2326 1-216-041-00 RES,CHIP 3.9K 5% 1/10W R2326 1-216-041-00 RES,CHIP 470 5% 1/10W R2327 1-216-059-90 RES,CHIP 2.7K 5% 1/10W R2329 1-216-059-90 RES,CHIP 1K 5% 1/10W R2332 1-216-059-90 RES,CHIP 1K 5% 1/10W R2333 1-216-059-90 RES,CHIP 2.7K 5% 1/10W R2331 1-216-059-90 RES,CHIP 3.7K 5% 1/10W R2331 1-216-061-00 RES,CHIP 47K 5% 1/10W R2331 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2331 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2331 1-216-065-91 RES,CHIP 3.3K 5% 1/10W R2331 1-216-065-91 RES,CHIP 3.3K 5% 1/10W R2331 1-216-065-90 RES,CHIP 3.3M 5% 1/10W R2341 1-216-037-00 RES,CHIP 3.3M 5% 1/10W R2341 1-216-049-91 RES,CHIP 3.3M 5% 1/10W R2341 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3301 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2341 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3301 1-216-067-91 RES,CHIP 4.7K 5% 1/10W R3301 1-216-067-91 RES,CHIP 3.3K 5% 1/10W R3301 1-216-067-91 RES,CHIP 3.3K 5% 1/10W R3301 1-216-067-91 RES,CHIP 4.7K 5% 1/10W R3301 1-216-067-91 RES,CHIP 4.7K 5% 1/10W R3301 1-216-067-91 RES,CHIP 3.3K 5% 1/10W R3301 1-216-067-91 RES,CHIP 3.3K 5% 1/10W R3301 1-216-067-91 RES,CHIP 3.3	R2320	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	R2502	1-216-085-00	RES,CHIP	33K		1/10W
R2322 1-216-065-91 RES,CHIP	R2321	1-216-057-00	RES,CHIP	2.2K	5%	1/10W						
R2322											5%	1/10W
R2326 1-216-043-91 RES.CHIP 470 5% 1/10W R2327 1-216-059-00 RES.CHIP 2.7K 5% 1/10W R2328 1-216-049-91 RES.CHIP 1K 5% 1/10W R2330 1-216-049-91 RES.CHIP 2.7K 5% 1/10W R2330 1-216-049-91 RES.CHIP 1K 5% 1/10W R2331 1-216-059-00 RES.CHIP 2.7K 5% 1/10W R2331 1-216-059-00 RES.CHIP 47K 5% 1/10W R2333 1-216-049-91 RES.CHIP 47K 5% 1/10W R2333 1-216-040-00 RES.CHIP 47K 5% 1/10W R2333 1-216-040-00 RES.CHIP 3.3K 5% 1/10W R2333 1-216-040-00 RES.CHIP 3.3K 5% 1/10W R2333 1-216-051-00 RES.CHIP 3.3W 1/10W R2334 1-216-051-00 RES.CHIP 3.3W 1/10W R2334 1-216-051-00 RES.CHIP 3.3W 5% 1/10W R2334 1-216-051-00 RES.CHIP 3.3W 5% 1/10W R2344 1-216-121-91 RES.CHIP 3.3W 5% 1/10W R2344 1-216-121-91 RES.CHIP 3.3W 5% 1/10W R2345 1-216-061-00 RES.CHIP 3.3W 5% 1/10W R2346 1-216-061-00 RES.CHIP 3.3W 5% 1/10W R3301 1-216-069-00 RES.CHIP 3.3W 5% 1/10W R3301 1-216-069-00 RES.CHIP 3.3W 5% 1/10W R3311 1-216-069-00 RES.CHIP 3.3W 5% 1/10W R3331 1-216-113-00 RES.CHIP 47K 5% 1/10W R3331 1-216-069-09 RE							R2506	1-216-099-00	RES.CHIP	120K	5%	1/10W
R2327 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2328 1-216-049-91 RES,CHIP 1K 5% 1/10W R2330 1-216-049-91 RES,CHIP 2.7K 5% 1/10W R2330 1-216-049-91 RES,CHIP 1K 5% 1/10W R2331 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2331 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2333 1-216-049-91 RES,CHIP 1K 5% 1/10W R2333 1-216-049-91 RES,CHIP 4.7K 5% 1/10W R2333 1-216-041-00 RES,CHIP 4.7K 5% 1/10W R2333 1-216-041-00 RES,CHIP 4.7K 5% 1/10W R2333 1-216-041-00 RES,CHIP 4.7K 5% 1/10W R2336 1-216-061-00 RES,CHIP 4.7K 5% 1/10W R2336 1-216-059-00 RES,CHIP 4.7K 5% 1/10W R2336 1-216-037-00 RES,CHIP 4.7K 5% 1/10W R2338 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R2342 1-216-037-00 RES,CHIP 330 5% 1/10W R2343 1-216-037-00 RES,CHIP 330 5% 1/10W R2344 1-216-037-00 RES,CHIP 330 5% 1/10W R3301 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2344 1-216-037-00 RES,CHIP 330 5% 1/10W R3301 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2344 1-216-037-00 RES,CHIP 330 5% 1/10W R3301 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2344 1-216-037-00 RES,CHIP 3.3K 5% 1/10W R3301 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3304 1-216-065-91 RES,CHIP 3.3K 5% 1/10W R3311 1-216-089-91 RES,CHIP 3.3K 5% 1/10W R3311 1-216-089-91 RES,CHIP 33K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-089-9	R2325	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	R2507	1-216-105-91	RES,CHIP	220K		1/10W
R2327 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2329 1-216-059-00 RES,CHIP 1K 5% 1/10W R2329 1-216-059-00 RES,CHIP 1K 5% 1/10W R2330 1-216-059-00 RES,CHIP 1K 5% 1/10W R2330 1-216-059-00 RES,CHIP 1K 5% 1/10W R2331 1-216-059-00 RES,CHIP 1K 5% 1/10W R2331 1-216-059-00 RES,CHIP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R2326	1-216-041-00	RES,CHIP	470	5%	1/10W	R2551 R2552	1-216-091-00	RES,CHIP			
R2329 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2555 1-216-055-00 RES,CHIP 1.8K 5% 1/10W R2331 1-216-059-00 RES,CHIP 1.6K 5% 1/10W R2551 1-216-051-00 RES,CHIP 1.2K 5% 1/10W R25531 1-216-059-00 RES,CHIP 1.2K 5% 1/10W R25531 1-216-049-91 RES,CHIP 1.2K 5% 1/10W R25531 1-216-049-91 RES,CHIP 47K 5% 1/10W R25531 1-216-049-91 RES,CHIP 47K 5% 1/10W R25331 1-216-049-91 RES,CHIP 47K 5% 1/10W R2333 1-216-041-00 RES,CHIP 3.3K 5% 1/10W R2333 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R25336 1-216-065-91 RES,CHIP 3.3K 5% 1/10W R2561 1-216-001-00 RES,CHIP 10 5% 1/10W R2333 1-216-059-00 RES,CHIP 330 5% 1/10W R2561 1-216-001-00 RES,CHIP 10 5% 1/10W R2563 1-216-073-00 RES,CHIP 2.2K 5% 1/10W R2563 1-216-073-00 RES,CHIP 10K 5% 1/10W R2563 1-216-073-00 RES,CHIP 10K 5% 1/10W R2563 1-216-073-00 RES,CHIP 2.2K 5% 1/10W R2564 1-216-073-00 RES,CHIP 330 5% 1/10W R2564 1-216-073-00 RES,CHIP 330 5% 1/10W R2564 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2344 1-216-081-00 RES,CHIP 8.2K 5% 1/10W R2344 1-216-081-00 RES,CHIP 10K 5% 1/10W R2344 1-216-081-00 RES,CHIP 2.2K 5% 1/10W R2344 1-216-081-00 RES,CHIP 3.3K 5% 1/10W R2344 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2344 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2344 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3311 1-216-085-00 RES,CHIP 33K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3323 1-216-085-00 RES,CHIP 33K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-										27K		
R2330 1-216-049-91 RES,CHIP 1K 5% 1/10W R2556 1-216-051-00 RES,CHIP 1.2K 5% 1/10W R2331 1-216-059-00 RES,CHIP 2.7K 5% 1/10W R2332 1-216-049-91 RES,CHIP 1K 5% 1/10W R2557 1-216-067-00 RES,CHIP 2.2K 5% 1/10W R2333 1-216-049-91 RES,CHIP 47K 5% 1/10W R2333 1-216-041-00 RES,CHIP 47D 5% 1/10W R2334 1-216-061-00 RES,CHIP 47D 5% 1/10W R2335 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2336 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2561 1-216-001-00 RES,CHIP 10 5% 1/10W R2336 1-216-065-91 RES,CHIP 3.3K 5% 1/10W R2562 1-216-001-00 RES,CHIP 10 5% 1/10W R2338 1-216-037-00 RES,CHIP 330 5% 1/10W R2338 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 8.2K 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R2343 1-216-081-00 RES,CHIP 8.2K 5% 1/10W R2344 1-216-191 RES,CHIP 22K 5% 1/10W R2344 1-216-191 RES,CHIP 1M 5% 1/10W R2344 1-216-081-00 RES,CHIP 1M 5% 1/10W R2345 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 15K 0.50% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2339 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2339 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2339 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2339 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2339 1-216-061-00 RES,CHIP 5.5K 1/10W R2339 1-216-061-00 RES,CHIP 5.5K 1/10W R2339 1-216-061-00 RES,CHIP 5.5K 1/10W R2339 1-216-061-00 RES			: '				R2555	1-216-055-00	RES.CHIP	1.8K	5%	1/10W
R2332 1-216-049-91 RES,CHIP 1K 5% 1/10W R2333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2334 1-216-041-00 RES,CHIP 470 5% 1/10W R2335 1-216-061-00 RES,CHIP 470 5% 1/10W R2336 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2337 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2338 1-216-065-91 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 10K 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R2342 1-216-037-00 RES,CHIP 330 5% 1/10W R2342 1-216-037-00 RES,CHIP 330 5% 1/10W R2343 1-216-037-00 RES,CHIP 330 5% 1/10W R2344 1-216-121-91 RES,CHIP 8.2K 5% 1/10W R2345 1-216-061-00 RES,CHIP 22K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2340 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2340 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2340 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R23	R2330	1-216-049-91	RES,CHIP	1 K	5%	1/10W	R2556	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2332 1-216-049-91 RES,CHIP 47K 5% 1/10W R2333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2334 1-216-041-00 RES,CHIP 47K 5% 1/10W R2335 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2336 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2336 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2336 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2337 1-216-037-00 RES,CHIP 330 5% 1/10W R2338 1-216-037-00 RES,CHIP 10K 5% 1/10W R2338 1-216-037-00 RES,CHIP 10K 5% 1/10W R2339 1-216-037-00 RES,CHIP 10K 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2334 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R2342 1-216-037-00 RES,CHIP 8.2K 5% 1/10W R2342 1-216-037-00 RES,CHIP 8.2K 5% 1/10W R2344 1-216-037-00 RES,CHIP 8.2K 5% 1/10W R2344 1-216-037-00 RES,CHIP 8.2K 5% 1/10W R2344 1-216-081-00 RES,CHIP 8.2K 5% 1/10W R2344 1-216-081-00 RES,CHIP 10M 5% 1/10W R2344 1-216-061-00 RES,CHIP 10M 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3311 1-216-689-91 RES,CHIP 10W 0.50% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 47K 5% 1/10W R2349 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W R3350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3350 1-216-089-91 RES,CHIP 470K 5% 1/10W R3350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3350 1-216-089-91 RES,CHIP 470K 5% 1/10W R3350 1-216-089-91 RES,CHIP 470K 5% 1/10W R3350 1-216-08	R2331	1-216-059-00	RES,CHIP	2.7K	5%	1/10W						
R2334 1-216-041-00 RES,CHIP 470 5% 1/10W R2560 1-216-069-00 RES,CHIP 6.8K 5% 1/10W R2335 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2561 1-216-001-00 RES,CHIP 10 5% 1/10W R2563 1-216-057-00 RES,CHIP 10 5% 1/10W R2337 1-216-037-00 RES,CHIP 330 5% 1/10W R2338 1-216-073-00 RES,CHIP 10K 5% 1/10W R2338 1-216-073-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R3302 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3304 1-216-061-00 RES,CHIP 8.2K 5% 1/10W R3308 1-216-097-91 RES,CHIP 4.7K 5% 1/10W R3308 1-216-097-91 RES,CHIP 10K 5% 1/10W R3310 1-216-089-91 RES,CHIP 39K 5% 1/10W R3311 1-216-089-91 RES,CHIP 39K 5% 1/10W R3312 1-216-095-00 RES,CHIP 82K 5% 1/10W R3312 1-216-095-00 RES,CHIP 33K 5% 1/10W R3312 1-216-095-00 RES,CHIP 33K 5% 1/10W R3312 1-216-095-00 RES,CHIP 33K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R3320 1-216-089-91 RES,CHIP 33K 5% 1/10W R3320 1-216-089-91 RES,CHIP 33K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5%												
R2335 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2561 1-216-001-00 RES,CHIP 10 5% 1/10W R2336 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2562 1-216-001-00 RES,CHIP 10 5% 1/10W R2563 1-216-057-00 RES,CHIP 2.2K 5% 1/10W R2338 1-216-073-00 RES,CHIP 10K 5% 1/10W R2338 1-216-073-00 RES,CHIP 10K 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R2342 1-216-037-00 RES,CHIP 8.2K 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2343 1-216-081-00 RES,CHIP 22K 5% 1/10W R3304 1-216-097-91 RES,CHIP 100K 5% 1/10W R2344 1-216-121-91 RES,CHIP 1M 5% 1/10W R3310 1-216-049-91 RES,CHIP 100K 5% 1/10W R2346 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3311 1-216-689-11 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-055-00 RES,CHIP 33K 5% 1/10W R2349 1-216-061-00 RES,CHIP 15K 0.50% 1/10W R3323 1-216-089-91 RES,CHIP 33K 5% 1/10W R2349 1-216-061-00 RES,CHIP 15K 0.50% 1/10W R3323 1-216-089-91 RES,CHIP 47K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3323 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-061-00 RES,CHIP 5% 1/10W R3320 1-216-061-00 RES,CHIP 5% 1/10W R3320 1-216-061-							R2560	1-216-069-00	RES CHIP	6.8K	5%	1/10W
R2337 1-216-037-00 RES,CHIP 330 5% 1/10W R3301 1-216-073-00 RES,CHIP 10K 5% 1/10W R2338 1-216-073-00 RES,CHIP 10K 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3308 1-216-097-91 RES,CHIP 4.7K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R3310 1-216-049-91 RES,CHIP 100K 5% 1/10W R3315 1-216-061-10 RES,CHIP 10M 5% 1/10W R3311 1-216-689-11 RES,CHIP 39K 5% 1/10W R3346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3311 1-216-695-00 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-675-11 METAL CHIP 10K 0.50% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R3320 1-216-089-91 RES,CHIP 33K 5% 1/10W R3320 1-216-089-91 RES,CHIP 47K 5% 1/10W R3320 1-216-089-91 RE	R2335			3.3K	5%	1/10W	R2561	1-216-001-00	RES,CHIP	10	5%	1/10W
R2337 1-216-037-00 RES,CHIP 330 5% 1/10W R2338 1-216-073-00 RES,CHIP 10K 5% 1/10W R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R2344 1-216-121-91 RES,CHIP 1M 5% 1/10W R2345 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3311 1-216-689-11 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-055-00 RES,CHIP 82K 5% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R2349 1-216-061-00 RES,CHIP 15K 0.50% 1/10W R3323 1-216-089-91 RES,CHIP 47K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-13-00 RES,CHIP 47K 5% 1/10W R3350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-13-00 RES,CHIP 47K 5% 1/10W R3350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-13-00 RES,CHIP 470K 5% 1/10W R3350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3350 1-216-13-00 RES,CHIP 470K 5% 1/10W R3350 1-216-13-100 RES,CHIP 470K 5% 1/10W R3350 1-216-13-	R2336	1-216-065-91	RES,CHIP	4.7K	5%	1/10W						
R2339 1-216-037-00 RES,CHIP 330 5% 1/10W R3302 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R2343 1-216-081-00 RES,CHIP 22K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R2344 1-216-121-91 RES,CHIP 1M 5% 1/10W R3310 1-216-049-91 RES,CHIP 1K 5% 1/10W R2345 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R3311 1-216-689-11 RES,CHIP 39K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3312 1-216-095-00 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-675-11 METAL CHIP 10K 0.50% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3323 1-216-113-00 RES,CHIP 47K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W R3350 1-216-113-100 RES,CHIP 470K 5% 1/10W R3350 1-216-113-100 RES,CHIP 470K 5% 1/10W R3350 1-216-113-100 RES,CHI												
R2341 1-216-037-00 RES,CHIP 330 5% 1/10W R3303 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R2342 1-216-071-00 RES,CHIP 8.2K 5% 1/10W R3304 1-216-065-91 RES,CHIP 4.7K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R3308 1-216-097-91 RES,CHIP 100K 5% 1/10W R3310 1-216-049-91 RES,CHIP 1 RES,CHI							B 3303	1_216_065_91	RES CHIP	4 7K	5%	1/10W
R2343 1-216-081-00 RES,CHIP 22K 5% 1/10W R3310 1-216-049-91 RES,CHIP 1K 5% 1/10W R2344 1-216-121-91 RES,CHIP 1M 5% 1/10W R2345 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3311 1-216-689-11 RES,CHIP 39K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3312 1-216-095-00 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-675-11 METAL CHIP 10K 0.50% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R2348 1-216-061-00 RES,CHIP 15K 0.50% 1/10W R3323 1-216-089-91 RES,CHIP 47K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W				330	5%	1/10W	R3303	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2343 1-216-081-00 RES,CHIP 22K 5% 1/10W R2344 1-216-121-91 RES,CHIP 1M 5% 1/10W R2345 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3312 1-216-095-00 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-675-11 METAL CHIP 10K 0.50% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3323 1-216-113-00 RES,CHIP 47K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W	R2342	1-216-071-00	RES,CHIP	8.2K	5%	1/10W						
R2345 1-216-681-11 METAL CHIP 18K 0.50% 1/10W R3311 1-216-689-11 RES,CHIP 39K 5% 1/10W R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3312 1-216-095-00 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-675-11 METAL CHIP 10K 0.50% 1/10W R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W												
R2346 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3312 1-216-095-00 RES,CHIP 82K 5% 1/10W R2347 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3317 1-216-675-11 METAL CHIP 10K 0.50% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R3320 1-216-085-00 RES,CHIP 33K 5% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W							R3311	1-216-620-11	RES CHIP	30K	5%	1/1037
R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 47K 5% 1/10W R3350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W	R2346	1-216-061-00	RES,CHIP	3.3K	5%	1/10 W	R3312	1-216-095-00	RES,CHIP	82K	5%	1/10W
R2348 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3323 1-216-089-91 RES,CHIP 47K 5% 1/10W R2349 1-216-679-11 METAL CHIP 15K 0.50% 1/10W R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W	R2347	1-216-061-00	RES,CHIP	3.3K	5%	1/10W						
R2350 1-216-061-00 RES,CHIP 3.3K 5% 1/10W R3333 1-216-113-00 RES,CHIP 470K 5% 1/10W												
							B3333	1-216-113-00	RES CHIP	470K	5%	1/103/



The components identified by shading and mark A are critical for safety.

Replace only with part number

1/10W 1/10W

5% 5%

A	M						piece portant le n	urnero specifie.	specified.	•	art number
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R3335	1-216-113-00		470K	5%	1/10W	0 0 1 1		<thermistor< td=""><td>></td><td></td><td></td></thermistor<>	>		
R3336 R3337	1-216-045-00 1-216-099-00	RES,CHIP	680 120 K	5% 5%	1/10 W 1/10 W	TH500	1-807-970-11	THERMISTOR			
R3338 R3339	1-216-103-00 1-216-045-00	RES,CHIP	180 K 680	5% 5%	1/10 W 1/10 W			<crystal></crystal>			
R3346 R3347	1-216-025-91 1-216-025-91	RES,CHIP	100 100	5% 5%	1/10W 1/10W	X101	1-579-175-11	VIBRATOR, CE	RAMIC		
R3348	1-216-025-91	•	100	5%	1/10W	X300 X301	1-577-259-11	VIBRATOR, CR VIBRATOR, CR	YSTAL		
R3349 R3350	1-216-025-91 1-216-109-00	RES,CHIP	100 330 K	5% 5%	1/10 W 1/10 W						
R3351 R3353	1-216-115-00 1-216-111-91	RES,CHIP	560K 390K	5% 5%	1/10W 1/10W	*****	*****	*****	*****	*****	******
R3355	1-216-089-91	·	47K	5%	1/10W		* A-1304-141-A	A M BOARD, CO			
R3356 R3357	1-216-051-00 1-216-051-00	RES,CHIP	1.2K 1.2K	5% 5%	1/10W 1/10W			*******	*****		
R3358 R3359	1-216-051-00 1-216-081-00	RES,CHIP	1.2K 22K	5% 5%	1/10W 1/10W		1-540-044-11	SOCKET, IC			
R3360	1-216-073-00		10K	5%	1/10W			<capacitor></capacitor>			
R3361 R3362	1-216-089-91 1-216-049-91	RES,CHIP	47K 1K	5% 5%	1/10W 1/10W	C1200	1-124-472-11	ELECT	470MF	20%	10V
R3363 R3364	1-216-049-91 1-216-073-00	RES,CHIP	1 K 10 K	5% 5%	1/10W 1/10W	C1201 C1202	1-164-161-11	CERAMIC CHIE	0.0022MF	10%	50V 50V
R3365	1-216-099-00	, -	120K	5%	1/10W	C1203 C1204	1-163-103-00 1-163-103-00	CERAMIC CHIE	27PF 27PF	5% 5%	50V 50V
R3366 R3367	1-216-093-00 1-216-093-00	RES,CHIP	68K 68K	5% 5%	1/10W 1/10W	C1205		CERAMIC CHIE			16V
R3368 R3369	1-216-081-00 1-216-089-91	RES,CHIP	22K 47K	5% 5%	1/10W 1/10W	C1208 C1210	1-104-665-11		100MF	20%	16V 16V
R3376	1-216-081-00	,	22K	5%	1/10W	C1211 C1213	1-164-346-11 1-126-301-11	CERAMIC CHIP ELECT	1MF 1MF	20%	16V 50V
R3378 R3380	1-216-119-00 1-216-121-91	RES,CHIP	820K 1M	5% 5%	1/10W 1/10W	C1214	1-126-301-11		1MF	20%	50V
R3390 R3394 R3395	1-216-057-00 1-216-089-91	RES,CHIP	2.2K 47K	5% 5%	1/10W 1/10W	C1215 C1216	1-126-301-11 1-126-301-11	ELECT	1MF	20% 20%	50V 50V
R3396	1-216-049-91 1-216-041-00	ŕ	1K 470	5% 5%	1/10W 1/10W	C1219 C1220		CERAMIC CHIP		5% 5%	50V 50V
R3398 R3399		METAL CHIP	36K 100	0.50% 5%	1/10 W 1/10 W 1/10 W			COMMECTOR			
`R3400 R3401	1-216-023-91 1-216-091-00 1-216-061-00	RES,CHIP	56K 3.3K	5% 5%	1/10W 1/10W 1/10W	CN1201	* 1 766 746 11	<pre><connector;< pre=""></connector;<></pre>		DO A DE	\ 12D
R3402		METAL CHIP	100K	0.50%	1/10 W			PLUG, CONNEC		BUAKL) 12P
R3403 R3404	1-216-025-91 1-216-073-00	RES,CHIP	100K 10K	5% 5%	1/10W 1/10W			<ic></ic>			
R3405 R3406	1-216-073-00 1-216-073-00	RES,CHIP	5.6K 10K	5% 5%	1/10W 1/10W	IC1201	* 8-750-408-23	IC uPD78P018FY	CW SO2		
R3407	1-216-073-00		10K	5%	1/10 W	IC1202 IC1203	8-759-251-04	IC AT24C02-10F	C		
R4401 R4404	1-216-085-00 1-216-073-00	RES,CHIP	33K 10K	5% 5%	1/10 W 1/10 W	IC1204 IC1205	8-759-335-70	IC ADM232LAR IC S-80743AL-A	-REEL		
R4405 R4407	1-216-069-00 1-216-061-00	RES,CHIP	6.8K 3.3K	5% 5%	1/10W 1/10W	101203	0-137-042-02	IC 3-00/43AL-A	7-3		
R4408	1-216-059-00	,	2.7K	5%	1/10W			<chip conduc<="" td=""><td>CTOR></td><td></td><td></td></chip>	CTOR>		
R4409 R4410	1-216-059-00 1-216-059-00	RES,CHIP	2.7K 2.7K	5% 5%	1/10W 1/10W	JR1 JR2	1-216-295-91 1-216-295-91		0		
R4411 R4412	1-216-113-00 1-216-113-00	RES,CHIP	470K 470K	5% 5%	1/10W 1/10W	JR3 JR4	1-216-295-91 1-216-295-91	SHORT	0		
R4413	1-216-295-91		0	575	1,1011	JR5	1-216-295-91		0		
R4414 R4415	1-216-295-91 1-216-295-91	SHORT	Ŏ 0			JR6 JR7	1-216-295-91 1-216-295-91		0		
R4416	1-216-295-91		Ŏ			JR8	1-216-295-91		0		
		<variable re<="" td=""><td>ESISTOR></td><td></td><td></td><td></td><td></td><td><resistor></resistor></td><td></td><td></td><td></td></variable>	ESISTOR>					<resistor></resistor>			
RV501	1-223-102-00	RES, ADJ, WIRE	EWOUND 1	20		R1201	1-216-073-00		10K	5%	1/10W
		∠TD A NICEODNA	⊒D.			R1202 R1203	1-216-295-91 1-216-065-91	RES,CHIP	0 4.7K	5%	1/10W
T500	1-426-668 11	<transforme< p=""> TRANSFORME</transforme<>		ያ (ከቦጥ		R1204 R1205	1-216-065-91 1-216-065-91		4.7K 4.7K	5% 5%	1/10W 1/10W
าวสา เวลาเลาสายกับสายสายสายสายสาย		* IVUIANI OMMEI	.,:::::::::::::::::::::::::::::::::	التحليين							

ARA

R1206 R1207 R1210 R1211

1-216-295-91 SHORT 1-216-295-91 SHORT 1-216-025-91 RES,CHIP 1-216-025-91 RES,CHIP

T500 1-426-668-11 TRANSFORMER, FERRITE (HDT)
T501 Δ1-453-234-11 TRANSFORMER ASSY, FLYBACK
T502 1-413-059-00 TRANSFORMER, FERRITE (DFT)
T503 Δ1-460-017-11 TRANSFORMER

Les composants identifies par une trame et une marque Λ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



specified.		piece polia	ni le numero	specille.				IVI
REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION REMARK
R1213	1-216-025-91	RES,CHIP	100	5%	1/10 W	CN609	1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P
R1214 R1215 R1218 R1220 R1221	1-216-295-91 1-216-295-91 1-216-089-91 1-216-025-91 1-216-025-91	SHORT RES,CHIP RES,CHIP	0 0 47K 100 100	5% 5% 5%	1/10W 1/10W 1/10W	000000000000000000000000000000000000000	4-382-854-11	<diode> DIODE D4SB60L SCREW (M3X10), P, SW (+); D601 DIODE RGP15J-6040G23</diode>
X1201	1-577-619-11	<crystal> VIBRATOR, CRY</crystal>	(STAL			D606 D607 D608	▲8-719-988-56 ▲8-719-936-85 ▲8-719-921-20	DIODE RGP15K-6179G23 DIODE RGP10GPKG23 DIODE 1SS119-25TD
*****		*************** A G BOARD, CO! ***********************************	MPLETE	*****	*****	D609 D610 D612 D614	8-719-029-04 4-382-854-11 8-719-312-08 4-382-854-11 8-719-045-48	DIODE RGP10GPKG23 DIODE D5L60 SCREW (M3X10), P, SW (+); D610 DIODE FMB-G16L SCREW (M3X10), P, SW (+); D612 DIODE FML-G12S SCREW (M3X10), P, SW (+); D614
	1-533-223-11 7-322-065-19	HOLDER, FUSE RUBBER, SILICO		Œ490W))	D615 D616 D617 D618	8-719-979-85 8-719-054-32 8-719-110-46	DIODE EGP20G DIODE ERA15-06 DIODE RD16ESB3 DIODE RGP151-6040G23
		<capacitor></capacitor>				D619	∧8-719-113-43	DIODE RD20ES-T1B2 DIODE RGP10GPKG23
C603	▲ 1-136-360-51 ▲ 1-136-360-51 ▲ 1-113-924-91	FILM	0.22MF 0.22MF 0.0047MF	20% 20% 20%	250V 250V 250V	D621	8-719-911-19	DIODE 1SS119-25
C605 C606	<u>↑</u> 1-113-924-91 <u>↑</u> 1-113-924-91	CERAMIC	0.0047MF 0.0047MF	20%	250V 250V			<ferrite bead=""></ferrite>
C607 C608 C609 C610	Δ1-113-924-91 * 4-374-846-11 Δ1-113-924-91 Δ1-113-924-91 Δ1-113-924-91	CERAMIC COVER, CAPAC CERAMIC CERAMIC CERAMIC	0.0047MF 0.0047MF 0.0047MF	20% 20% 20% 20%	250V 250V 250V	FB609	1-410-396-41 1-410-396-41 1-410-396-41 ▲1-410-397-31 ▲1-410-397-31	FERRITE 0.45UH FERRITE 0.45UH FERRITE 1.1UH FERRITE 1.1UH
C612 C613 C614 C615	Д 1-113-924-91 Д 1-113-977-51 Д 1-113-977-51 Д 1-129-718-91 Д 1-136-619-11 Д 1-104-962-91	FILM FILM FILM FILM	0.0047MF 0.47MF 0.47MF 0.022MF 0.0016MF 47MF	10% 10% 5% 3%	250V 630V 630V 630V 2KV 35V	FB611 FB612	∆1-410-397-31 ∆1-410-397-31 ∆1-410-397-31 ∆1-410-397-31	FERRITE 1.1UH FERRITE 1.1UH
was an a seriod property	Д 1-104-962-91 Д 1-107-430-91		0.0033MF	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1KV	JC601	№ 8-749-925-03	IC STR-M6524
C618	Δ1-107-906-91 Δ1-107-911-91	ELECT ELECT(BLOCK)	10MF 220MF	20% 20% 20%	50V 50V 160V 500V	IC602 IC603	4-058-250-01 4-382-854-11 8-749-010-47 4-382-854-11 8-759-701-56	SHEET, INSULATING; IC601 SCREW (M3X10), P, SW (+); IC601 IC STR-S3115 SCREW (M3X10), P, SW (+); IC602 IC NJM78M05FA
C623 C626 C627 C628 C629	1-107-900-51 1-102-038-00 1-107-900-51 1-102-038-00 1-107-891-11	CERAMIC ELECT CERAMIC	4700MF 0.001MF 4700MF 0.001MF 3300MF	20% 20% 20%	35V 500V 35V 500V 25V	(1.0 <u>00</u> 000000000000000000000000000000000		SCREW (M3X10), P, SW (+); IC603 <coil> INDUCTOR OUH</coil>
C630 C631 C632 C633	1-126-964-11 1-136-853-11 1-107-492-11 1-107-885-11	FILM ELECT ELECT	10MF 0.56MF 47MF 3300MF	20% 5% 20% 20%	50V 200V 160V 16V	L1601 L1601 L2601	1-410-679-31	INDUCTOR OUH INDUCTOR 270UH COIL (WITH CORE) 45UH <photo coupler=""></photo>
C635 C636	▲ 1-162-115-91		330PF 47MF	10% 20%	2KV 50V	PH601	A 8.749.923.50	PHOTO COUPLER PC111YS
C638 C639 C640	▲ 1-113-977-51 1-107-906-11 1-107-906-11	FILM ELECT ELECT	0.47MF 10MF 10MF	10% 20% 20%	630V 50V 50V			<transistor></transistor>
C641 C2601	1-102-074-00		0.001MF 0.001MF	10%	50V 500V	Q601 Q602		TRANSISTOR 2SD774-34 TRANSISTOR 2SD1640Q
22001		<connector></connector>				Q603 Q604	8-729-303-61 4-382-854-11	TRANSISTOR 2SC3851-G SCREW (M3X10), P, SW (+); Q603 TRANSISTOR DTC114ESA
CNICOI	* 1_520_2/2_11	PIN, CONNECTORS		OR)		Q604 Q605		TRANSISTOR 2SA1091-O
CN601 CN602 CN603 CN605 CN606	* 1-695-561-11 * 1-508-765-00 * 1-573-964-11	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO PLUG, CONNEC	OR (PC BC OR (5mm F OR (PC BC	OARD) 7 PITCH) 3	3P	Q606 Q607		TRANSISTOR DTC114ESA TRANSISTOR DTC114ESA

CN607 * 1-564-509-11 PLUG, CONNECTOR 6P



Les composants identifies par une trame et une marque \(\Delta\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

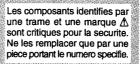
The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF. NO. PART I	NO.	DESCRIPTION RESISTOR>		<u> </u>	REMARK	REF. NO.		DESCRIPTION GA BOARD, C	OMPLETE	-	REMARK
R603	491-71 490-71 833-91		1M 56K 39K 1.2K 1.2K	20% 5% 5% 5% 5%	1/2W 3W F 3W F 1/4W		1-533-223-11	++++++++++++++++++++++++++++++++++++++	*****		
R606	239-11 849-91 857-91 857-91	WIREWOUND CARBON CARBON CARBON CARBON	0.15 5.6K 12K 12K 8.2K	10% 5% 5% 5% 5%	3W F 1/4W 1/4W 1/4W 1/4W	C1601 C1602	1-107-910-11 1-107-911-11		100MF 220MF	20% 20%	50V 50V
R612 1-249- R613 <u></u>	404-00 835-91 385-91	CARBON CARBON CARBON CARBON SOLID	1K 82 1.5K 2.2 4.7M	5% 5% 5% 5% 10%	1/4W F 1/4W 1/4W 1/4W F 1/2W	CN1601	* 1-564-509-11	<connector> PLUG, CONNEC</connector>			
R617 1-202- R619 1-202- R620 1-202-	933-61 933-61 933-61	CARBON FUSIBLE FUSIBLE FUSIBLE METAL OXIDE	22K 0.1 0.1 0.1 22K	5% 10% 10% 10% 5%	1/4W 1/2W F 1/2W F 1/2W F 1W F	IC1601	8-759-390-50	IC uPC2408AHF			
R623 1-249- R624 1-247- R625 1-216-	417-11 893-11 386-11	CARBON CARBON CARBON METAL OXIDE METAL OXIDE		5% 5% 5% 5%	1/4W F 1/4W 1/4W 3W F 3W F	R1604	1-247-895-91	CARBON **********	470K *******	5% *****	1/4W ******
R628	491-71 727-91 490-71	METAL OXIDE	56K 4.7M	5% 10% 5% 5%	3W F 1/2W 3W F 1/4W F			C BOARD, CO. ************************************	******	20inch m	odel)
		CARBON	47	5%	1/4W F			<capacitor></capacitor>			
R634 1-247- R635 1-249- R636 1-247-	883-00 429-11 895-91	CARBON CARBON CARBON CARBON CARBON	10K 150K 10K 470K 3.9K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	C701 C702 C703 C704	1-102-116-00 1-102-116-00 1-102-121-00 1-102-121-00	CERAMIC CERAMIC CERAMIC CERAMIC	680PF 680PF 680PF 0.0022MF		50V 50V 50V 50V
R639 1-249- R640 1-247- R641 1-215-	419-11 893-11 423-00	CARBON CARBON CARBON METAL METAL OXIDE	1K 1.5K 390K 1.2K 1.5	5% 5% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W 3W F		1-126-933-11 1-102-074-00 1-162-116-00 1-136-601-11 1-101-880-00	CERAMIC CERAMIC FILM CERAMIC	100MF 0.001MF 680PF 0.01MF 47PF	20% 10% 10% 10% 5%	16V 50V 2KV 630V 50V
R1602	878-91	SOLID <relay></relay>	220K 220K	20% 20%	1/2W 1/2W	C711 C712 C714 C715 C716 C724	1-101-880-00 1-101-880-00 1-102-976-00 1-102-976-00 1-102-976-00 1-128-582-11	CERAMIC CERAMIC CERAMIC CERAMIC	47PF 47PF 180PF 180PF 180PF 10MF	5% 5% 5% 5% 5% 20%	50V 50V 50V 50V 50V 100V
RY601 <u>∆</u> 1-515-	9-4-6	<transforme< td=""><td></td><td>TER A</td><td></td><td>C726 C733 C734 C737</td><td>1-107-662-11 1-107-652-11 1-101-888-00 1-102-934-00</td><td>ELECT CERAMIC</td><td>22MF 10MF 68PF 1PF</td><td>20% 20% 5% 0.25PF</td><td>250V 250V 50V 50V</td></transforme<>		TER A		C726 C733 C734 C737	1-107-662-11 1-107-652-11 1-101-888-00 1-102-934-00	ELECT CERAMIC	22MF 10MF 68PF 1PF	20% 20% 5% 0.25PF	250V 250V 50V 50V
T602 ▲1-426-	716-11	TRANSFORMER TRANSFORMER TRANSFORMER	L, LINE FII	LTER (LI	·T)			<connector></connector>			
THP601 ∆ 1-808-	************	<thermistor:< td=""><td>></td><td></td><td>•</td><td>CN701 CN702 CN703</td><td>* 1-573-964-11</td><td>PLUG, CONNECT PIN, CONNECTO TAB (CONTACT</td><td>TOR 8P OR (PC BO.</td><td>ARD) 6P</td><td></td></thermistor:<>	>		•	CN701 CN702 CN703	* 1-573-964-11	PLUG, CONNECT PIN, CONNECTO TAB (CONTACT	TOR 8P OR (PC BO.	ARD) 6P	
11/1/2011/00	er en							<diode></diode>			
VDR601 <u>Å</u> 1-809- VDR602 <u>Å</u> 1-809-			- W			D701 D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119-2 DIODE 1SS119-2 DIODE 1SS119-2 DIODE 1SS119-2 DIODE 1SS119-2	15 15 15		
*******	*****	******	*****	*****	*****	D706 D707 D708 D709	8-719-901-83 8-719-901-83	DIODE 1SS119-2 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83	25		

Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION		R	EMARK		REF. NO.	PART NO.	DESCRIPTION			REMARK	<u>.</u>
D713	8-719-901-83	DIODE 1SS83					R738 R739 R740	1-247-807-31 1-247-807-31 1-249-433-11	CARBON CARBON	100 100 22K	5% 5% 5%	1/4W 1/4W 1/4W	I
D716 D717		DIODE 1SS83 DIODE 1SS83					R741 R742	1-249-433-11 1-249-433-11		22K 22K	5% 5%	1/4W 1/4W	F
J701 A	\ 1.540.124.11	<jack> SOCKET, PICTU</jack>	RF TURF				R744 R745 R746 R747	1-247-843-11 1-249-429-11 1-215-879-11 1-247-725-11	CARBON METAL OXIDE	3.3K 10K 47K 10K	5% 5% 5% 5%	1/4W 1/4W 1W 1/4W	ĭ
2.0.		en e				336	R748	1-249-923-11	CARBON	1 K	5%	1/4W	I
L702	1_408_607_31	<coil> INDUCTOR 22U</coil>	н				R749 R751 R752	1-215-902-11 1-247-887-00 1-247-887-00		220K 220K	5% 5% 5%	2W 1/4W 1/4W	ı
L703 L704 L705	1-408-608-31 1-408-608-31 1-412-530-31	INDUCTOR 27U INDUCTOR 27U INDUCTOR 27U	H H H				R753 R754	1-247-887-00 1-247-863-91	CARBON CARBON	220K 22K	5% 5%	1/4W 1/4W	
L706	1-410-667-31	INDUCTOR 22U	Н				R755 R756 R760	1-249-434-11 1-249-440-11 1-249-400-11	CARBON	27K 82K 39	5% 5% 5%	1/4W 1/4W 1/4W	ŀ
O701	0 720 110 70	<transistor></transistor>	•	C					<variable re<="" td=""><td>SISTOR~</td><td></td><td></td><td></td></variable>	SISTOR~			
Q701 Q702 Q703 Q704 Q705	8-729-119-78 8-729-119-78 8-729-200-17	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	C2785-HF C2785-HF SA1091-O	E			RV708 Z RV709		RES, ADJ, META	L FILM 1			
Q706 Q707		TRANSISTOR 25					******	******	******	*****	*****	*****	**
Q708 Q709 Q710	8-729-326-11 8-729-326-11	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	C2611 C2611					* A-1331-764- <i>A</i>	C BOARD, CO		4inch n	nodel)	
Q711 Q712 Q713	8-729-200-17 8-729-255-12	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1091-O SC2551-O						COVER (REAR I SCREW +PSW 3		OL		
Q714 Q715		TRANSISTOR 25 TRANSISTOR 25							<capacitor></capacitor>				
Q716 Q717		TRANSISTOR 25 TRANSISTOR 25					C701 C702 C703 C704	1-102-157-00 1-102-157-00 1-102-157-00 1-102-121-00	CERAMIC CERAMIC	560PF 560PF 560PF 0.0022MF	10% 10% 10%	500V 500V 500V 50V	
		<resistor></resistor>					C705	1-126-933-11	ELECT	100MF	20%	16 V	
R702 R704 R705 R706 R707	1-249-441-11 1-215-404-00 1-215-404-00 1-215-404-00 1-249-429-11	METAL METAL METAL	100K 200 200 200 10K	5% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C706 C707 C708 C710 C711	1-102-074-00 1-162-116-00 1-136-601-11 1-101-880-00 1-101-880-00	CERAMIC FILM CERAMIC	0.001MF 680PF 0.01MF 47PF 47PF	10% 10% 5% 5% 5%	50V 2KV 630V 50V 50V	
R707	1-249-429-11	CARBON	10 K	5%	1/4W	1	C712	1-101-880-00	CERAMIC	47PF	5%	50V	
R709 R710 R711 R712	1-249-429-11 1-215-388-00 1-215-390-00 1-215-388-00	METAL METAL	10K 43 51 43	5% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W		C713 C714 C715 C716	1-107-651-11 1-102-976-00 1-102-976-00 1-102-976-00	CERAMIC CERAMIC	4.7MF 180PF 180PF 180PF	20% 5% 5% 5%	250V 50V 50V 50V	
R715	1-202-818-00	SOLID	1K	20%	1/2W 3W	F	C717 C718	1-107-372-11 1-107-372-11		0.22MF 0.22MF	10% 10%	200V 200V	
R716 R717 R718 R719	1-202-818-00	METAL OXIDE	1K	5% 20% 5% 20%	1/2W	F	C720 C734 C735	1-107-372-11 1-106-383-00 1-102-973-00 1-102-816-00	MYLAR CERAMIC	0.047MF 100PF 120PF	10% 10% 5% 5%	200V 200V 50V 50V	
R720 R722	1-216-486-00 1-202-883-11	METAL OXIDE	8.2K 680K	5% 20%	3W 1/2W	F	C736	1-102-816-00	CERAMIC	120PF	5%	50V	
R723 R724 R725	1-202-838-00 1-202-842-11 1-202-838-00	SOLID SOLID	100K 220K 100K	20% 20% 20%	1/2W 1/2W 1/2W				<connector></connector>				
R726 R728	1-202-846-00 1-202-837-00		470K 82K	20% 20%	1/2W 1/2W			* 1-573-964-11	PLUG, CONNECTO PIN, CONNECTO TAB (CONTACT	OR (PC BO.	ARD) 6	P	
R729 R731 R732	1-202-549-00 1-247-815-91 1-247-815-91	CARBON	100 220 220	20% 5% 5%	1/2W 1/4W 1/4W				<diode></diode>				
R733 R734 R735 R736	1-247-815-91 1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON	220 220 220 220 220 100	5% 5% 5% 5% 5%	1/4W	F F F	D701 D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119-2 DIODE 1SS119-2 DIODE 1SS119-2 DIODE 1SS119-2 DIODE 1SS119-2	25 25 25			
R737	1-247-807-31	CARBUN	100	J 10	11.44 AA	į	D103	0-717-711-17	DIODE 100119-2				



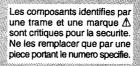


REF. NO.	PART NO.	DESCRIPTION			REMARK	. /	REF. NO.	PART NO.	DESCRIPTION			REMARI	K
D706 D707		DIODE 1SS119-: DIODE 1SS83	25				R740	1-249-429-11	CARBON	10 K	5%	1/4W	F
D708 D709	8-719-901-83 8-719-901-83	DIODE 1SS83 DIODE 1SS83					R741 R742	1-249-429-11 1-249-429-11	CARBON CARBON	10 K 10 K	5% 5%	1/4W 1/4W	F F
D713		DIODE 18883					R744 R745	1-249-429-11 1-249-429-11	CARBON	10K 10K	5% 5%	1/4W 1/4W	
D715 D716 D717	8-719-901-83	DIODE 1SS83 DIODE 1SS83 DIODE 1SS83					R746 R747	1-213-879-11	METAL OXIDE	47K 10K	5% 5%	1W 1/4W	F F
2717	2						R748 R749	1-249-923-11		1K	5% 5%	1/4W 2W	F
1701		<jack></jack>	ine wine			eren:	R750 R751	1-249-400-11 1-247-887-00		39 220K	5% 5%	1/4W 1/4W	F
3/01 2	71-220-819-11	SOCKET, PICTU	JKE IUBE	•			R752 R753	1-247-887-00 1-247-887-00		220K 220K	5% 5%	1/4W 1/4W	
		<coil></coil>					11755	1 247 007-00	CARDON	ZZOIX	370	1/4 **	
L701 L705		INDUCTOR 22U INDUCTOR 39U					DVIZOZ	1 222 (41 11	<variable re<="" td=""><td></td><td></td><td></td><td></td></variable>				
		<transistor:< td=""><td></td><td></td><td></td><td></td><td>RV707 RV708</td><td>∆1-230-619-11</td><td>RES, ADJ, META RES, ADJ, META COVER (MAIN)</td><td>AL GLAZE</td><td>110M</td><td></td><td></td></transistor:<>					RV707 RV708	∆ 1-230-619-11	RES, ADJ, META RES, ADJ, META COVER (MAIN)	AL GLAZE	110M		
Q701	8-729-119-78	TRANSISTOR 2		FIE			RV709		RES, ADJ, META				
Q702 Q703	8-729-119-78	TRANSISTOR 2 TRANSISTOR 2	SC2785-HI				***	. د د د د د د د د د د د د د د د د د د د	ن دل		a allo allo allo allo allo allo a		
Q704 Q705		TRANSISTOR 2 TRANSISTOR 2					*****		************* A H BOARD, CO		****	*****	**
Q706 Q707	8-729-326-11	TRANSISTOR 2 TRANSISTOR 2	SC2611					K-13/2-410-7	********				
Q708 Q709	8-729-326-11	TRANSISTOR 2 TRANSISTOR 2	SC2611					* 4-348-208-00	HOLDER, LED				
Q710 Q711		TRANSISTOR 2							<connector></connector>	•			
Q712 Q713	8-729-200-17 8-729-255-12	TRANSISTOR 2	SA1091-O SC2551-O						PLUG, CONNEC				
Q714 Q715		TRANSISTOR 2		TE					DIODE				
Q716 Q717		TRANSISTOR 2					D2102	8-719-920-05	<diode></diode>	'-50			
							D2103 D2104	8-719-812-32	DIODE TLY123 DIODE 1SS133T				
R702	1-247-897-11	<resistor></resistor>	560K	5%	1/4W				ADDRIGHOD.				
R704 R705	1-215-405-00 1-215-405-00	METAL	220 220	1% 1%	1/4W 1/4W 1/4W		R2101	1-249-419-11	<resistor></resistor>	1.5K	5%	1/4W	
R706 R707	1-215-405-00 1-249-431-11	METAL	220 15K	1% 5%	1/4W 1/4W		R2107 R2137	1-249-430-11 1-249-414-11	CARBON CARBON	12K 560	5% 5%	1/4W 1/4W	
R708 R709	1-249-431-11 1-249-431-11		15K 15K	5% 5%	1/4W 1/4W		R2138 R2140	1-249-414-11 1-249-414-11		560 560	5% 5%	1/4 W 1/4 W	
R710 R711	1-215-391-00 1-215-394-00	METAL	56 75	1% 1%	1/4W 1/4W 1/4W		R2141 R2142	1-249-414-11 1-249-414-11		560 560	5% 5%	1/4W 1/4W	
R712	1-215-392-00		62	1%	1/4W		R2143 R2144	1-249-414-11 1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W	
R715 R716 R717	1-202-818-00 1-216-486-00 1-202-818-00	METAL OXIDE	1K 8.2K 1K	20% 5% 20%	1/2W 3W 1/2W	F	R2145	1-249-414-11		560	5%	1/4W	
R718 R719		METAL OXIDE		5% 20%		F	R2148 R2149 R2150	1-215-419-00 1-215-414-00 1-215-409-00	METAL	820 510 330	1% 1% 1%	1/4W 1/4W 1/4W	
R720	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F	R2151 R2152	1-215-407-00 1-215-404-00	METAL	270 200	1% 1%	1/4W 1/4W	
R722 R723 R724	1-202-883-11 1-202-838-00 1-202-842-11	SOLID	680K 100K 220K	20% 20% 20%	1/2W 1/2W 1/2W		R2153 R2154	1-215-401-11		150	1%	1/4W	
R725	1-202-642-11		1M	20%	1/2W		R2155 R2156	1-215-399-00 1-215-397-00 1-215-421-00	METAL	120 100 1K	1% 1% 1%	1/4W 1/4W 1/4W	
R731 R732	1-247-815-91 1-247-815-91	CARBON	220 220	5% 5%	1/4W 1/4W		R2157	1-215-416-00	METAL	620	1%	1/4W	
R733 R734 R735	1-247-815-91 1-249-409-11 1-249-409-11	CARBON	220 220 220	5% 5% 5%		F	R2158 R2159 R2160	1-215-410-00 1-215-405-00 1-215-421-00	METAL	360 220 1K	1% 1%	1/4W 1/4W 1/4W	
R736	1-249-409-11		220	5%		F	X2100	1-213-421-00	METAL	117	1%	1/ 4* VV	
R737 R738	1-247-807-31 1-247-807-31	CARBON	100 100	5% 5%	1/4W 1/4W	-	Diam	1.005.005.55	<variable re<="" td=""><td></td><td></td><td></td><td></td></variable>				
R739	1-247-807-31	CAKBUN	100	5%	1/4W		RV2101	1-225-385-11	RES, VAR, CARI	30N 20K			

Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION		RE	EMARK	REF. NO.	PART NO.	DESCRIPTION		1	REMARK
RV2103		RES, VAR, CARE						<connector></connector>			
RV2105 RV2109 RV2113	1-225-385-11	RES, VAR, CARB RES, VAR, CARB RES, VAR, CARB	ON 20K			CN801	* 1-573-896-11	SOCKET, CONN	ECTOR 12	P	
RV2117	1-225-385-11	RES, VAR, CARE	ON 20K		1 1 1 1 1 1 1 1			<ic></ic>			
		<switch></switch>						<coil></coil>			
S2101		SWITCH, TACTI				L801	1-410-470-11	INDUCTOR 10U	Н		
S2102 S2103	1-572-811-21	SWITCH, TACTII SWITCH, TACTII	Ļ					<resistor></resistor>			
S2104 S2105		SWITCH, TACTII SWITCH, TACTII				D002	1-249-435-11		33K	5%	1/4W
S2106		SWITCH, TACTI				R802 R803 R804	1-249-453-11 1-247-863-91 1-215-454-00	CARBON	22K 24K	5% 1%	1/4W 1/4W
\$2107 \$2108	1-572-811-21	SWITCH, TACTII SWITCH, TACTII	Ĺ			R805	1-215-461-00	METAL	47K 1K	1% 5%	1/4W 1/4W
S2109 S2110		SWITCH, TACTII SWITCH, TACTII				R808	1-249-417-11		1K	5%	1/4W
\$2111		SWITCH, TACTI				R812 R813	1-249-417-11 1-249-417-11	CARBON	1K	5%	1/4W
S2113 S2114		SWITCH, TACTI SWITCH, TACTI				R815 R816	1-247-843-11 1-249-418-11	CARBON	3.3K 1.2K	5% 5%	1/4W 1/4W
						R817	1-249-418-11		1.2K	5%	1/4W
******	******	******	*******	******	*****	R818 R819	1-249-418-11 1-249-418-11 1-249-422-11	CARBON	1.2K 1.2K 2.7K	5% 5% 5%	1/4W 1/4W 1/4W
	* A-1388-204-A	JBOARD, COM				R820	1-249-422-11	CARBON	2./K	370	1/4 **
		**************************************				******	******	******	****	*****	****
		<connector></connector>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TERMINAL BOA			
CN608	* 1-695-561-11	PIN, CONNECTO	R (PC BOA	RD) 7P			1-337-077-21	************			DOARD)
		<switch></switch>					2-990-241-02 * 3-175-740-01	HOLDER (A), I TERMINAL	PLUG		
9201	A 1 602 021 11	SWITCH, PUSH	A C DOWE	π p \			* 3-175-741-01 * 3-175-742-01	NUT WASHER			
3001	₩ 1-092-921-11	541101,10011	AC.1011	.N.)			3-178-213-21	SCREW +P 3X	10		
******	******	******	******	*****	******		7-685-135-19	SCREW +P 2.62	X10 TYPE2	SLIT	
	* A-1390-778-	A X BOARD, CO	MPLETE					<capacitor></capacitor>			
	A-1370-770 2	******				C2401	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
		<connector></connector>				C2402 C2403	1-104-396-11 1-104-396-11	ELECT	10MF 10MF	20% 20%	16V 16V
CN108	* 1-564-518-11	PLUG, CONNEC				C2404 C2405	1-104-396-11 1-124-589-11	ET E 0E	10MF 47MF	20% 20%	16V 16V
011100	1 00 1 010 11	1200,00111.20				C2406	1-104-396-11		10 MF	20%	16V
		<diode></diode>				C2407 C2408	1-104-396-11 1-104-396-11		10MF 10MF	20% 20%	16V 16V
D001 D002		DIODE SEL4410				C2409 C2410	1-124-234-00		22MF 0.022MF	20%	16V 50V
D003 D004	8-719-301-36	DIODE SEL4410	E-D			C2411	1-104-396-11		10 MF	20%	16V
2001	0 717 001 00					C2412 C2413	1-104-396-11 1-163-117-00	ELECT CERAMIC CHIP	10MF 100PF	20% 5%	16V 50V
*****	******	*******	*****	******	*****	C2414 C2415	1-126-301-11		1MF	20%	50V 50V
	* A-1390-779-	A S BOARD, COM	APLETE (U.	/C model	ONLY)	C2416	1-124-589-11	ELECT	47MF	20%	16V
	11 15/0 ///	*******			,	C2418 C2422	1-163-033-91 1-124-234-00	CERAMIC CHIP ELECT	0.022MF 22MF	20%	50V 16V
		<capacitor></capacitor>				C2423 C2424	1-124-234-00 1-163-033-91	ELECT CERAMIC CHIP	22MF 0.022MF	20%	16V 50V
C805	1-102-978-00		220PF	5%	50V	C2425	1-124-589-11		47MF	20%	16V
C806 C807	1-136-165-00 1-130-477-00	FILM	0.1MF 0.0033MF	5% 5%	50V 50V	C2426 C2427	1-124-589-11 1-124-234-00		47MF 22MF	20% 20%	16V 16V
C810 C811	1-136-165-00 1-136-165-00	FILM	0.1MF	5% 5%	50V 50V	C2428 C2429		CERAMIC CHIP		20%	50V 16V
C812	1-136-495-11			5%	50V	C2430		CERAMIC CHIP			50V
C813 C818	1-124-261-00 1-136-165-00	ELECT	10MF	20% 5%	50V 50V	C2431 C2432	1-124-234-00 1-124-234-00	ELECT	22MF 22MF	20% 20%	16 V 16 V
2010	1 155 165 00	- 									





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2433 C2434	1-163-033-91 1-124-463-00	CERAMIC CHIP	0.022MF 0.1MF	20%	50V 50V	IC2405	8-759-287-89	IC MM1113XFF	
C2435 C2436 C2437 C2438 C2439	1-163-033-91 1-124-234-00	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	0.022MF 22MF	20% 20% 20%	50V 16V 50V 16V 16V	J2401 J2402 J2403	1-766-738-11	<jack> CONNECTOR, COAXIAL (BNC) BNC (WITH SW) CONNECTOR, COAXIAL (BNC)</jack>	
C2440 C2441 C2442 C2443 C2444	1-163-033-91 1-124-234-00 1-124-234-00 1-124-234-00 1-124-234-00	ELECT ELECT	0.022MF 22MF 22MF 22MF 22MF 22MF	20% 20% 20% 20%	50V 16V 16V 16V 16V	J2404 J2405 J2406 J2407 J2408 J2409	1-766-738-11 1-562-261-71 1-766-738-11 1-562-261-71 1-766-738-11	BNC (WITH SW) CONNECTOR, COAXIAL (BNC) BNC (WITH SW) CONNECTOR, COAXIAL (BNC) BNC (WITH SW) CONNECTOR, COAXIAL (BNC)	
C2445 C2446 C2447 C2448 C2449		ELECT		20% 20% 20%	50V 50V 16V 16V 16V	J2410 J2411 J2412 J2413	1-766-738-11 1-562-261-71 1-766-738-11 1-507-802-41	BNC (WITH SW) CONNECTOR, COAXIAL (BNC) BNC (WITH SW) JACK, PIN (MOUNT TYPE)	
C2450 C2451 C2452 C2454 C2461	1-124-234-00 1-124-589-11 1-124-589-11 1-126-163-11 1-165-319-11	ELECT ELECT	22MF 47MF 47MF 4.7MF 0.1MF	20% 20% 20% 20%	16V 16V 16V 25V 50V	J2414 J2415 J2416 J2417 J2418	1-507-802-41 1-507-802-41 1-507-802-41	JACK, PIN (MOUNT TYPE)	
C2462 C2463 C2464 C2465	1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.1MF		50V 50V 50V 50V	J2419 J2420	1-507-802-41	JACK, PIN (MOUNT TYPE) DIN SOCKET 8P <chip conductor=""></chip>	
C2466 C2467 C2468 C2469 C2470	1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.1MF		50V 50V 50V 50V 50V	JR1 JR4 JR5 JR7 JR12	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
CN206		<connector></connector>				JR13 JR14 JR15	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
CN306 CN307 CN308 CN309 CN310	1-564-522-11 1-564-519-11 1-695-581-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC CONNECTOR, D JACK, DC (POLA	TOR 7P TOR 4P SUB	FIED T	YPE)	JR16 JR17 JR19 JR20	1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
CN2401 A	1-251-263-11 1-565-167-12		(WITH SW)		/	JR21 JR23 JR30	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
		<diode></diode>				JR34 JR35 JR40 JR41	1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
D2402 D2404 D2405 D2406 D2407	8-719-800-76 8-719-800-76 8-719-800-76	DIODE 1SS352 DIODE 1SS226 DIODE 1SS226 DIODE 1SS226 DIODE 1SS226				JR43 JR46 JR47 JR48	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP	
D2408 D2409 D2410 D2411 D2415	8-719-800-76 8-719-800-76 8-719-800-76	DIODE 1SS226 DIODE 1SS226 DIODE 1SS226 DIODE 1SS226 DIODE 1SS226				JR52 JR60	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP <transistor></transistor>	
D2416 D2417 D2418 D2420 D2421	8-719-800-76 8-719-800-76 8-719-800-76 8-719-037-53	DIODE 1SS226 DIODE 1SS226 DIODE 1SS226 DIODE RD27SB- DIODE RD27SB-				Q2401 Q2402 Q2403 Q2404 Q2405	8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
D2422 D2423	8-719-037-53	DIODE RD27SB- DIODE RD27SB-	T1		, , , , , , , , , , , , , , , , , , ,	Q2408 Q2409 Q2410 Q2411 Q2412	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	
IC2401 IC2402 IC2403 IC2404	8-759-509-71 8-759-287-89	<ic> IC XRU4021BF-F IC XRU4021BF-F IC MM1113XFF IC MM1111XF</ic>				Q2414 Q2415 Q2416 Q2417	8-729-120-28 8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6	



DEE NO	DARTNO	DESCRIPTION		DEMARK	! DEC NO	DADTNO	DESCRIPTION		DEMARK
REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
		<resistor></resistor>			R2480 R2481		METAL GLAZE 1K METAL GLAZE 68K	5% 5%	1/10 W 1/10 W
R2401	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R2482	1-214-702-00		1%	1/4W
R2402		METAL GLAZE 560	5%	1/10W	D2402	1 216 001 00	METAL CLAZE 56V	501	1/1000
R2404 R2405		METAL GLAZE 47K METAL GLAZE 10K	5% 5%	1/10W 1/10W	R2483 R2484		METAL GLAZE 56K METAL GLAZE 120	5% 5%	1/10W 1/10W
R2406		METAL GLAZE 47K	5%	1/10W	R2485	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W
R2407	1 216 072 00	METAL GLAZE 10K	5%	1/10W	R2486 R2487		METAL GLAZE 1K METAL GLAZE 68K	5% 5%	1/10W 1/10W
R2408		METAL GLAZE 10K	5%	1/10W	K2407	1-210-093-00	WILLIAE GEAZE OOK	370	1/10**
R2409		METAL GLAZE 10K	5%	1/10W	R2488	1-214-702-00	METAL GLAZE 56K	1%	1/4W
R2410 R2411		METAL GLAZE 47K METAL GLAZE 10K	5% 5%	1/10W 1/10W	R2489 R2490		METAL GLAZE 3.9K	5% 5%	1/10W 1/10W
					R2491	1-216-027-00	METAL GLAZE 120	5%	1/10W
R2412 R2413		METAL GLAZE 47K METAL GLAZE 10K	5% 5%	1/10W 1/10W	R2492	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2414		METAL GLAZE 47K	5%	1/10W	R2493	1-216-093-00	METAL GLAZE 68K	5%	1/10 W
R2415		METAL GLAZE 10K	5%	1/10W	R2494 R2495	1-214-702-00		1%	1/4W 1/4W
R2416	1-210-089-91	METAL GLAZE 47K	5%	1/10W	R2493	1-214-702-00 1-216-091-00	METAL GLAZE 56K	1% 5%	1/4 W 1/10W
R2417		METAL GLAZE 10K	5%	1/10W	R2497		METAL GLAZE 3.9K	5%	1/10W
R2418 R2419		METAL GLAZE 47K METAL GLAZE 10K	5% 5%	1/10W 1/10W	R2498	1-216-037-00	METAL GLAZE 330	5%	1/10W
R2420		METAL GLAZE 47K	5%	1/10W	R2499		METAL GLAZE 1K	5%	1/10W
R2421	1-216-073-00	METAL GLAZE 10K	5%	1/10 W	R3400		METAL GLAZE 68K	5%	1/10W
R2422	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R3402 R3404		METAL GLAZE 56K METAL GLAZE 3.9K	5% 5%	1/10W 1/10W
R2423		METAL GLAZE 10K	5%	1/10W					
R2424 R2425		METAL GLAZE 47K METAL GLAZE 10K	5% 5%	1/10W 1/10W	R3405 R3406		METAL GLAZE 330 METAL GLAZE 1K	5% 5%	1/10W 1/10W
R2426	1-214-775-00		1%	1/4W	R3408		METAL GLAZE 68K	5%	1/10W
D0407	1 216 007 01	METAL CLAZE 100V	501	1/10W	R3409 R3410	1-214-702-00		1%	1/4W
R2427 R2428		METAL GLAZE 100K METAL GLAZE 220K	5% 5%	1/10W 1/10W	K3410	1-210-091-00	METAL GLAZE 56K	5%	1/10W
R2429		METAL GLAZE 100	5%	1/10W	R3411		METAL GLAZE 3.9K	5%	1/10W
R2430 R2431		METAL GLAZE 560K METAL GLAZE 15K	5% 5%	1/10W 1/10W	R3412 R3413		METAL GLAZE 330 METAL GLAZE 10K	5% 5%	1/10 W 1/10 W
					R3414	1-216-073-00	METAL GLAZE 10K	5%	1/10 W
R2432 R2433	1-214-775-00	METAL 82K METAL GLAZE 100K	1% 5%	1/4W 1/10W	R3416	1-216-049-91	METAL GLAZE 1K	5%	1/10 W
R2434		METAL GLAZE 100K	5%	1/10W	R3417	1-216-093-00	METAL GLAZE 68K	5%	1/10W
R2435		METAL GLAZE 100	5%	1/10W	R3418	1-214-702-00		1%	1/4W
R2436	1-216-115-00	METAL GLAZE 560K	5%	1/10W	R3419 R3420		METAL GLAZE 330 METAL GLAZE 82	5% 5%	1/10W 1/10W
R2437		CONDUCTOR, CHIP			R3421		METAL GLAZE 39K	5%	1/10W
R2438 R2439	1-216-077-00 1-214-775-00	METAL GLAZE 15K METAL 82K	5% 1%	1/10W 1/4W	R3422	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2440		METAL GLAZE 220K	5%	1/10W	R3423	1-216-083-00	METAL GLAZE 27K	5%	1/10W
R2441	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R3424		METAL GLAZE 1K METAL GLAZE 3.3K	5%	1/10 W 1/10 W
R2442	1-216-025-91	METAL GLAZE 100	5%	1/10W	R3425 R3426		METAL GLAZE 3.3K METAL GLAZE 120	5% 5%	1/10W 1/10W
R2443		METAL GLAZE 560K	5%	1/10W	70.40				
R2444 R2446	1-216-077-00	METAL GLAZE 15K METAL 82K	5% 1%	1/10W 1/4W	R3427 R3428		METAL GLAZE 47K METAL GLAZE 10K	5% 5%	1/10W 1/10W
R2447		METAL GLAZE 220K	5%	1/10W	R3429	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R2448	1 216 007 01	METAL GLAZE 100K	5%	1/10W	R3430 R3431		METAL GLAZE 10K METAL GLAZE 47K	5% 5%	1/10W 1/10W
R2449		METAL GLAZE 100K	5%	1/10W	K3431	1-210-009-91	METAL GEALL 4/K	370	1/10**
R2450		METAL GLAZE 560K	5%	1/10W	R3432		METAL GLAZE 10K	5%	1/10W
R2451 R2452		METAL GLAZE 15K METAL GLAZE 47K	5% 5%	1/10W 1/10W	R3435 R3436		METAL GLAZE 680 METAL GLAZE 680	5% 5%	1/10W 1/10W
					R3437	1-216-045-91	METAL GLAZE 680	5%	1/10W
R2453 R2455		METAL GLAZE 10K METAL GLAZE 470K	5% 5%	1/10W 1/10W	R3438	1-216-045-91	METAL GLAZE 680	5%	1/10 W
R2458		CONDUCTOR, CHIP	570		R3439	1-216-045-91	METAL GLAZE 680	5%	1/10W
R2463		METAL GLAZE 33K	5%	1/10W					
R2465	1-410-0/3-00	METAL GLAZE 10K	5%	1/10W	İ		<switch></switch>		
R2466		METAL GLAZE 10K	5%	1/10W	50401	1 570 500 11			
R2467 R2470	1-216-073-00	METAL GLAZE 10K METAL 75	5% 1%	1/10W 1/4W	S2401	1-5/0-598-11	SWITCH, DIP		
R2471	1-216-093-00	METAL GLAZE 68K	5%	1/10W	!				
R2472	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W	; *******	******	********	*****	*****
R2473		METAL GLAZE 330	5%	1/10W					
R2474 R2475		METAL GLAZE 1K METAL GLAZE 56K	5% 5%	1/10W 1/10W					
R2475 R2476	1-214-702-00		10%	1/10W 1/4W					
R2477		METAL GLAZE 56K	5%	1/10W	į				
R2478	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W					
R2479		METAL GLAZE 120	5%	1/10W					

Les composants identifies par une trame et une marque \(\Delta \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS				ES AND PACKING MATERIALS	
Ž	\(\) 1-426-442-21 \(\) 1-426-505-11 \(\) 1-451-349-12	RESISTOR ASSY, HIGH-VOLTAGE COIL, DEMAGNETIZATION (14in COIL, DEMAGNETIZATION (20in DEFLECTION YOKE (Y20FZA) (20in MAGNET, DISK 10mmø	nch) nch)	4	1-690-871-11 1-690-871-11 1-765-719-11	CORD, POWER (10A/125V) (U/C CABLE (MINI DIN) 8P CORD SET, POWER (AUS model CORD SET, POWER (AEP model HOLDER (B), PLUG	
<i>L</i>	1-452-094-00 1-532-742-11 1-537-877-21 1-543-653-11	MAGNET, ROTATABLE DISK; 1: FUSE, GLASS TUBE 1.6A/125V TERMINAL BOARD ASSY, 1/O (C CORE ASSY, BEAD(DIVISION T CLAMP, SLEEVE FERRITE	Q BOARD)		3-861-644-03 3-861-699-11 * 4-043-769-01 * 4-043-770-01	INSTRUCTIONS FOR USE MANUAL, INTERFACE CUSHION (UPPER) (ASSY) (20in CUSHION (LOWER) (ASSY) (20 HINGE, COVER	
V901 Z	N 8-451-472-11 N 8-736-135-05	FUSE (H.B.C.) 4A/250V DEFLECTION YOKE Y14MGAT PICTURE TUBE 20FZ5(DARK) (M49JGH1	(14inch) 1X) (20inch)		4-048-072-01 4-048-073-01 * 4-058-819-01	COVER, CONTROL PANEL (14i COVER, CONTROL PANEL (20i COVER, DROP PROTECTION INDIVIDUAL CARTON (20inch) INDIVIDUAL CARTON (14inch)	nch)
		PICTURE TUBE 14MG(DARK) (M34KBEI	1X) (14inch)		* 4-058-822-01 * 4-380-432-21	CUSHION (UPPER) (ASSY) (14in CUSHION (LOWER) (ASSY) (14 BAG, PROTECTION (20inch) BAG, PROTECTION (14inch)	